

# ROADWAY & INTERSECTION IMPROVEMENTS

## FOR WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16)

### IN THE TOWN OF UXBRIDGE WORCESTER COUNTY COMMONWEALTH OF MASSACHUSETTS

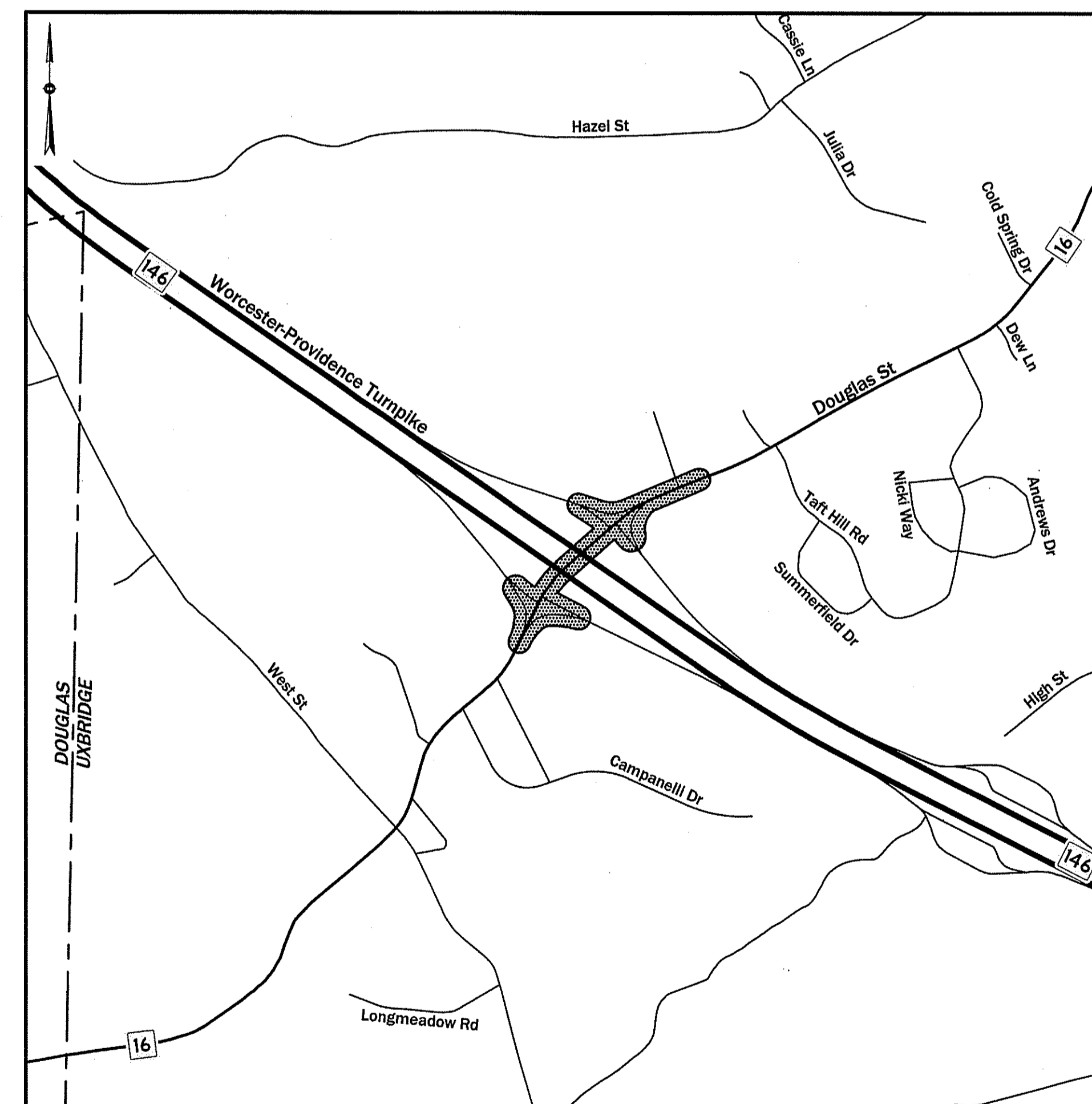
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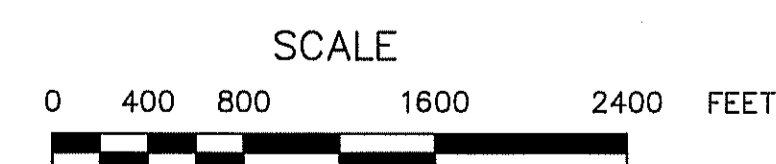
#### CONVENTIONAL SIGNS

COUNTY, CITY, OR TOWN BOUNDARY	---
COUNTY, CITY, OR TOWN SIDE LINE	---
FENCE LINE	- x - x - x - x - x -
BASE LINE OR SURVEY LINE	72+00
RIGHT OF WAY LINE	APPROXIMATE TOWN LAYOUT
CULVERT	---

ELEVATIONS	
POLE	
PROPOSED SURFACE	
PRESENT SURFACE	
EXIST. 98.2	102.67
PROP.	
74+00	



PROJECT LOCATION



PROJECT LENGTH = 3,500± FT ± (0.46 MILES)

THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION – HIGHWAY DIVISION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 2021 EDITION, THE SUPPLEMENTAL SPECIFICATIONS (ENGLISH UNITS) DATED JUNE 30, 2021, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

#### DESIGN DESIGNATION

	ROUTE 16 (WEST OF ROUTE 146)	ROUTE 16 (EAST OF ROUTE 146)
	DESIGN SPEED	DESIGN SPEED
ADT (2020)	45 MPH	45 MPH
ADT (2040)	7,070	10,230
K	10,930	15,170
D	9%	9%
T (PEAK HOUR)	56% EB	58% EB
T (AVERAGE DAY)	3.5%	2.4%
DHV	6.4%	3.5%
DDHV	1,080	1,510
FUNCTIONAL CLASSIFICATION	610	880
	URBAN MINOR ARTERIAL	URBAN PRINCIPAL ARTERIAL

#### FINAL SUBMISSION

SEPTEMBER 10, 2021  
(REVISED JANUARY 20, 2022)

4	CON. COMM. COMMENTS/TMP REVISIONS	MLH	1/20/22
3	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
2	MASSDOT 75/100% DESIGN COMMENTS	MLH	8/20/21
1	MASSDOT 25% DESIGN COMMENTS	MLH	6/11/21
REV.	DESCRIPTION	BY	DATE

#### COVER SHEET & INDEX

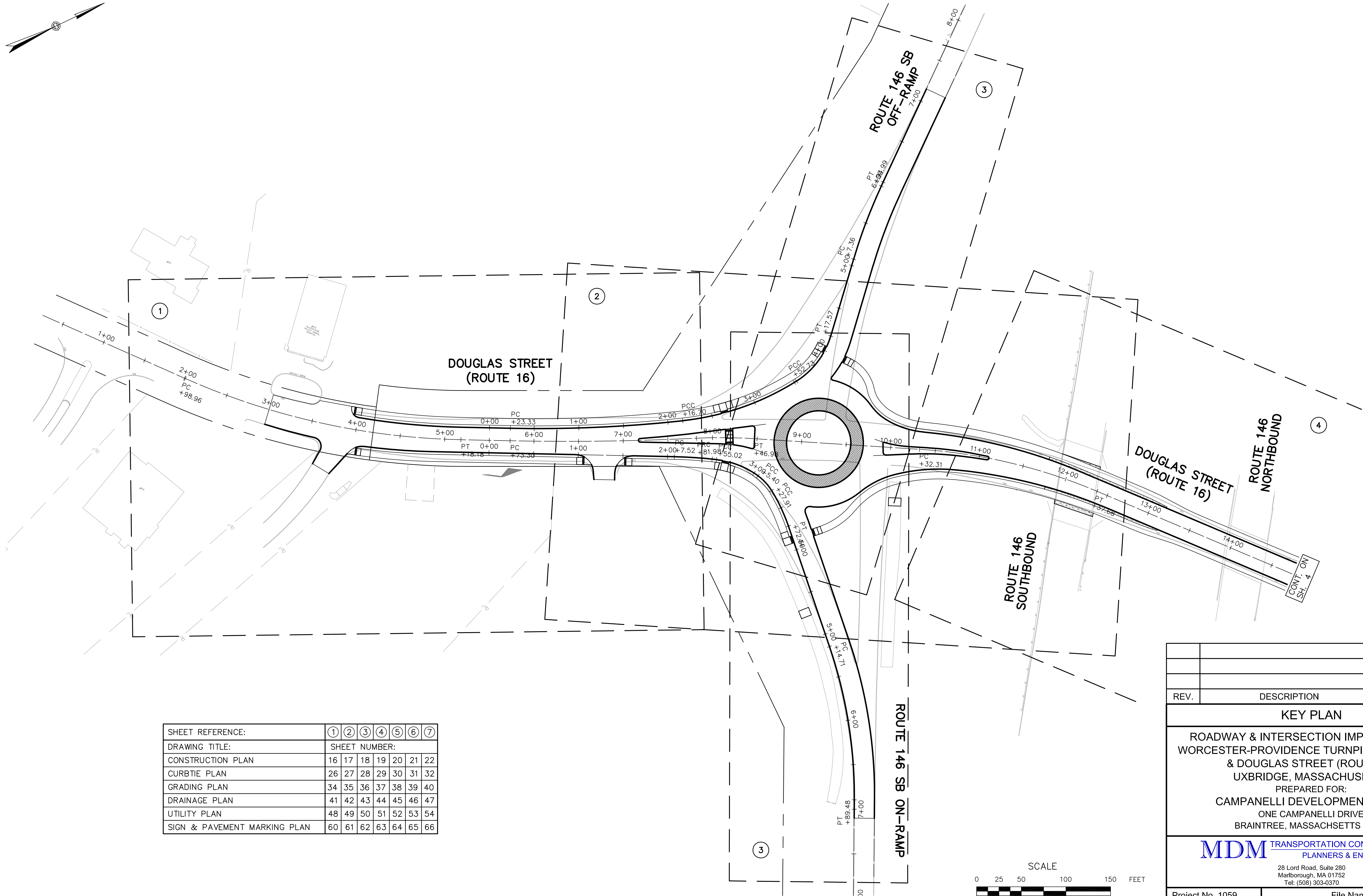
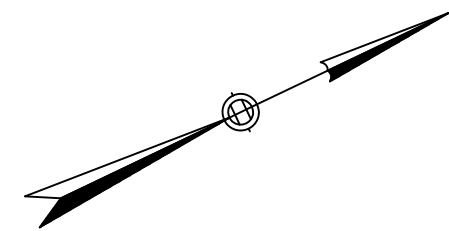
ROADWAY & INTERSECTION IMPROVEMENTS  
WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146)  
& DOUGLAS STREET (ROUTE 16)  
UXBRIDGE, MASSACHUSETTS  
PREPARED FOR:  
CAMPANELLI DEVELOPMENT VI LLC  
ONE CAMPANELLI DRIVE  
BRAINTREE, MASSACHUSETTS 02185

**MDM** TRANSPORTATION CONSULTANTS, INC.  
PLANNERS & ENGINEERS

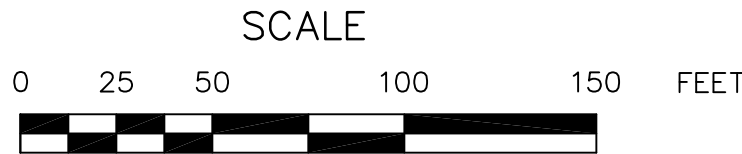
28 Lord Road, Suite 280  
Marlborough, MA 01752  
Tel: (508) 303-0370

Project No. 1059	File Name: 1059 Cover & Index.dwg
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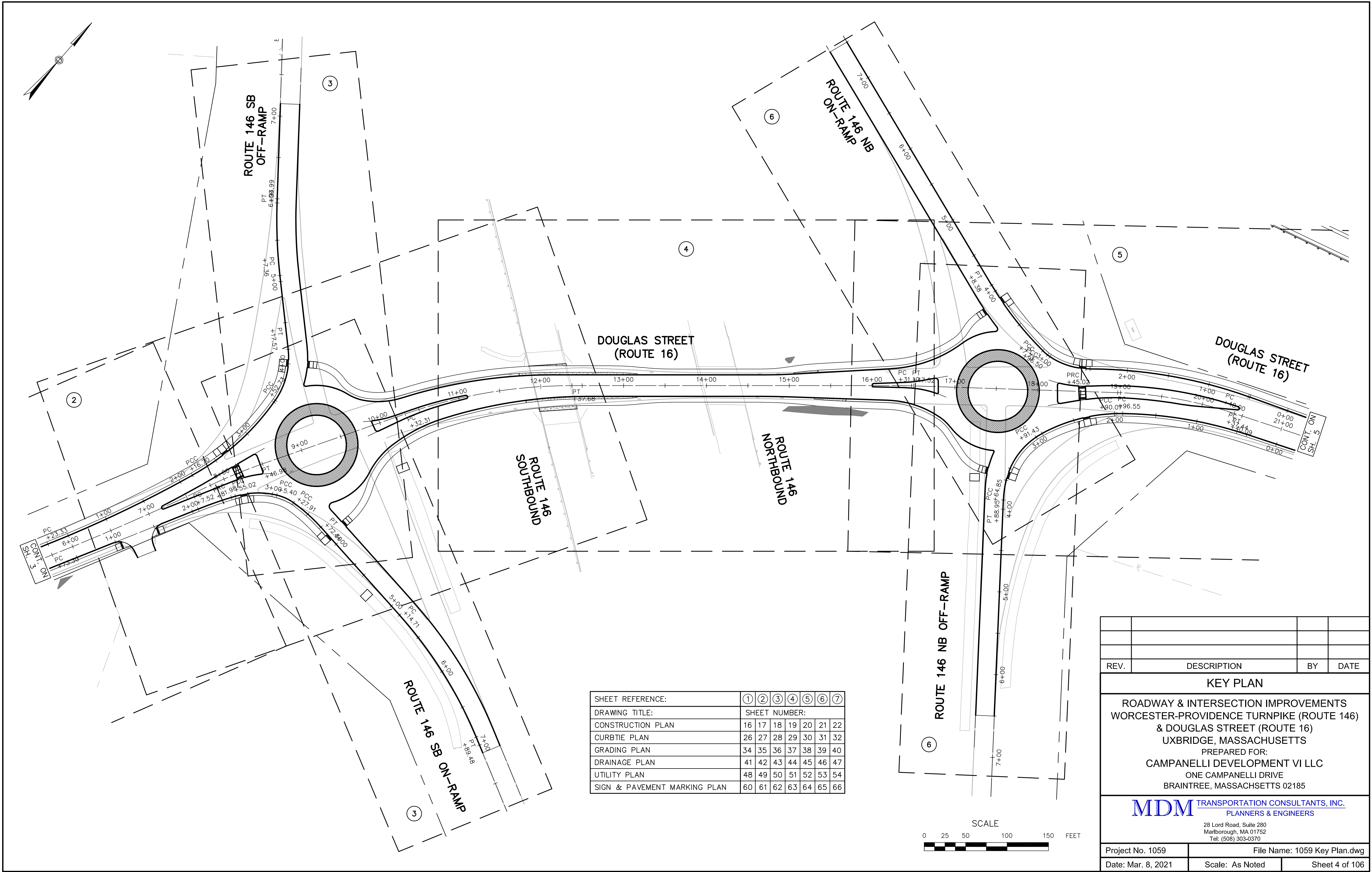




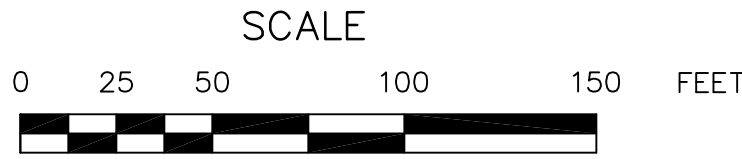
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DRAWING TITLE:	SHEET NUMBER:						
CONSTRUCTION PLAN	16	17	18	19	20	21	22
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UTILITY PLAN	48	49	50	51	52	53	54
SIGN & PAVEMENT MARKING PLAN	60	61	62	63	64	65	66



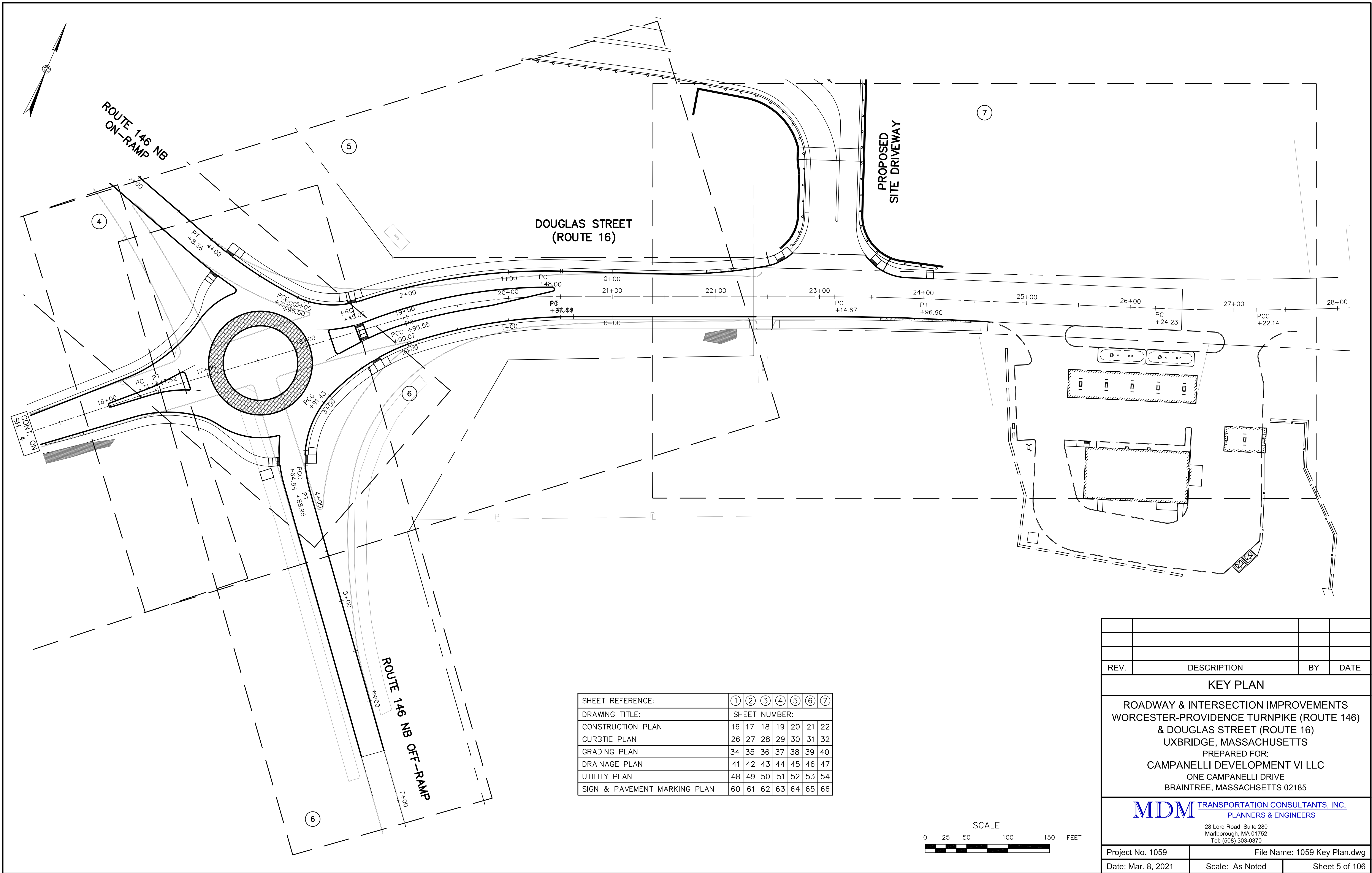
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KEY PLAN			
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<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Key Plan.dwg	
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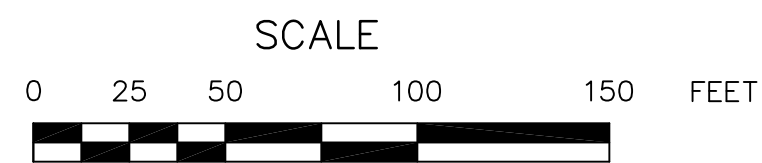
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GENERAL NOTES

1. ACCURACY AND COMPLETENESS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT LOCATION, SIZE, TYPE ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED, PRIOR TO COMMENCING THE WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
2. ALL TOWN OWNED UTILITY STRUCTURES, WITHIN AREAS AFFECTED BY THE WORK SHALL BE ADJUSTED TO NEW LINE AND GRADE AS DIRECTED BY THE ENGINEER. ANY UTILITY POLES AND/OR GUY POLES, WITHIN AREAS AFFECTED BY THE WORK, SHALL BE REMOVED AND RESET BY THE RESPECTIVE UTILITY COMPANY AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES. UNLESS OTHERWISE NOTED ON THE PLANS, ALL UTILITY POLES AND/OR GUY WIRES/ANCHORS SHALL BE RETAINED.
3. WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
4. EXISTING CONDITIONS PROVIDED FROM A FIELD SURVEY PERFORMED BY KELLY ENGINEERING GROUP, INC., 0 CAMPANELLI DRIVE, BRAINTREE, MA 02184, MA. PHONE: (781) 843-4333.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING GRADES. IF ANY ADJUSTMENT IS REQUIRED, THE CONTRACTOR SHALL NOTIFY AND SEEK THE APPROVAL OF THE ENGINEER PRIOR TO PERFORMING THE WORK.
6. SHOP DRAWINGS OF ALL CASTINGS, PRECAST STRUCTURES, PIPE, LIGHTING EQUIPMENT AND MANUFACTURED COMPONENTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
7. ALL PROPOSED CATCH BASIN CASTINGS SHALL BE MASSDOT STANDARD TYPE, AS INDICATED ON THE DRAINAGE PLANS.
8. ALL EXISTING DRAINAGE LINES TO BE REPLACED SHALL BE ABANDONED IN PLACE UNLESS NOTED OTHERWISE. IF THEY CONFLICT WITH THE PROPOSED DRAINAGE LINES THEY SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. DRAINAGE STRUCTURES TO BE ABANDONED SHALL BE FILLED WITH CONTROLLED DENSITY FILL - TYPE 2E.
9. WHERE DRAINAGE PIPES OR STRUCTURES ARE ABANDONED IN PLACE THE CONTRACTOR SHALL MAKE SURE THAT ALL CONNECTING PIPES, INLETS AND OUTLETS ARE PLUGGED. ALL LIVE CONNECTIONS SHALL BE CONNECTED TO THE NEW SYSTEM.
10. WHEN A PROPOSED CATCH BASIN INTERFERES WITH ANY UNDERGROUND UTILITY, A GUTTER INLET SHALL BE USED.
11. CATCH BASIN, GUTTER INLET AND MANHOLE FRAMES AND GRATES/COVERS SHALL CLEARLY ALIGN WITH THE OPENINGS IN THE PRECAST STRUCTURES.
12. CONCRETE COLLARS SHALL BE PROVIDED FOR ALL CATCH BASIN CASTINGS, MANHOLE CASTINGS AND WATER SERVICE BOXES. CONCRETE COLLARS SHALL BE BROUGHT UP TO A HEIGHT THAT WILL ALLOW 3" OF HOT MIX ASPHALT TO BE PLACED ABOVE THE COLLAR.
13. ALL PROPOSED CASTINGS WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED TO FINISH GRADE. NEW CASTINGS SHALL BE PROVIDED FOR ALL DRAINAGE STRUCTURES TO BE ADJUSTED, REMODELED OR REBUILT.
14. ALL WHEELCHAIR RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE ARCHITECTURAL ACCESS BOARD AND THE LATEST MASSDOT STANDARDS.
15. LOCATION OF PROPOSED WHEELCHAIR RAMPS SHALL BE AS SHOWN ON THE PLANS AND VERIFIED BY THE ENGINEER IN THE FIELD.
16. ALL CURB TIE DIMENSIONS ARE TO THE FACE OF THE CURB/BERM/EDGING (GUTTER LINE).
17. ALL PROPOSED VERTICAL GRANITE CURB SHALL BE MASSDOT TYPE VA4.
18. ALL EXISTING GRANITE CURB, CURB INLETS AND CURB CORNERS SHALL BE REMOVED AND STACKED UNLESS OTHERWISE NOTED ON THE PLANS.
19. SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH MASSDOT REQUIREMENTS, THE MUTCD AND THE SPECIAL PROVISIONS.
20. UNLESS OTHERWISE NOTED, ALL BACKFILL SHALL CONSIST OF SUITABLE MATERIAL UNIFORMLY DISTRIBUTED IN 6 INCH LAYERS AND THOROUGHLY COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY OF THE BACKFILL MATERIAL IN ACCORDANCE WITH ASTM D1557 MODIFIED PROCTOR.
21. ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM BORROW PLACED AND SEEDED. THE LOAM BORROW SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.
22. AREAS DISTURBED BEYOND THE PROJECT LIMITS SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
23. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT ALL EXISTING TREES AND ROOTS THAT ARE NOT DESIGNATED FOR REMOVAL.
24. THE LIMIT OF WORK SHALL BE THE STREET RIGHT-OF-WAY UNLESS SHOWN OTHERWISE.
25. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A REGISTERED PROFESSIONAL SURVEYOR TO STAKE THE CONSTRUCTION. LINE AND GRADE STAKES SHALL BE PROVIDED FOR ALL WORK PROPOSED UNDER THIS PROJECT.
26. ALL SIGN AND PAVEMENT MARKING NOTES ARE SHOWN ON THE SIGN AND PAVEMENT MARKING PLANS.
27. NEW SIDEWALK, WHEELCHAIR RAMPS AND/OR PRIVATE WALKS AND DRIVEWAYS SHALL BE CONSTRUCTED TO THE NEAREST CONSTRUCTION JOINT IN THE EXISTING ADJACENT SURFACE AS DIRECTED BY THE ENGINEER.
28. CLEAR AND GRUB ALL AREAS BETWEEN THE EXISTING EGDE OF PAVEMENT AND THE BOTTOM AND TOP OF SLOPE UNLESS OTHERWISE NOTED ON THE PLANS. THIS SHALL INCLUDE ALL EXISTING TREES, SHRUBS AND PLANTINGS. ALL OTHER TREE & SHRUBS SHALL BE RETAINED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE TOWN FOR REMOVAL.
29. ALL ELEVATIONS ARE BASED UPON THE NATIONAL NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
30. PROPOSED PAVEMENT SAWCUTS SHALL BE 1'-0" (MIN.) OFF THE FACE OF CURB, UNLESS OTHERWISE NOTED.
31. ALL FILTER TUBES MUST BE INSTALLED AND IN PLACE PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

PAVEMENT NOTES

FULL-DEPTH CONSTRUCTION (WIDENING 4'-0" OR GREATER)\*

<u>SURFACE COURSE</u>	1-3/4" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)
<u>INTERMEDIATE COURSE</u>	2-1/4" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)
<u>BASE COURSE</u>	4-1/2" SUPERPAVE BASE COURSE 37.5 (SBC-37.5)
<u>SUB-BASE</u>	4" DENSE GRADED CRUSHED STONE PLACED OVER 8" GRAVEL BORROW, TYPE B

FULL-DEPTH BOX WIDENING (WIDENING GREATER THAN 6" & LESS THAN 4'-0")

<u>SURFACE COURSE</u>	1-3/4" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)
<u>INTERMEDIATE COURSE</u>	2-1/4" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)
<u>BASE COURSE</u>	6" H.E.S. CEMENT CONCRETE BASE COURSE
<u>SUB-BASE</u>	8" GRAVEL BORROW, TYPE B

FULL-DEPTH DRIVEWAY CONSTRUCTION

<u>SURFACE COURSE</u>	2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)
<u>INTERMEDIATE COURSE</u>	3" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)
<u>SUB-BASE</u>	4" DENSE GRADED CRUSHED STONE PLACED OVER 8" GRAVEL BORROW, TYPE B

MILLING & RESURFACING

<u>SURFACE COURSE</u>	1-3/4" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)
<u>MILLING</u>	VARIABLE DEPTH PAVEMENT MILLING (PAVEMENT MILLING TO MEET LINES AND GRADES)

HOT MIX ASPHALT DRIVEWAY & APRON CONSTRUCTION

<u>SURFACE COURSE</u>	1-1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)
<u>INTERMEDIATE COURSE</u>	2-1/2" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)
<u>BASE COURSE</u>	8" GRAVEL BORROW, TYPE B

HOT MIX ASPHALT DRIVEWAY RECONSTRUCTION

<u>SURFACE COURSE</u>	1-1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)
<u>INTERMEDIATE COURSE</u>	2-1/2" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)
<u>BASE COURSE</u>	REMOVE EXISTING ASPHALT PAVEMENT, RETAIN EXISTING GRAVEL BASE ADD GRAVEL BORROW, TYPE B AS REQUIRED

HOT MIX ASPHALT SIDEWALKS & SHARED USE PATH

<u>SURFACE COURSE</u>	1-1/4" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5)
<u>INTERMEDIATE COURSE</u>	1-3/4" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)
<u>BASE COURSE</u>	8" GRAVEL BORROW, TYPE B

CEMENT CONCRETE WHEELCHAIR RAMPS & BUFFER STRIPS

<u>SURFACE COURSE</u>	4" CEM. CONC. (AIR ENTRAINED 4000 PSI, 3/4", 610)
<u>BASE COURSE</u>	8" GRAVEL BORROW, TYPE B

TRUCK APRON

<u>SURFACE COURSE</u>	8" CEM. CONC. (AIR ENTRAINED 4000 PSI, 3/4", 610)
<u>BASE COURSE</u>	8" GRAVEL BORROW, TYPE B

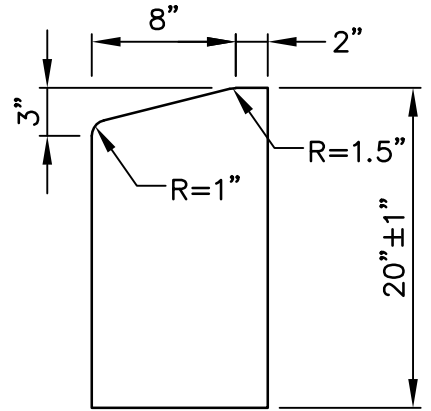
TACK COAT

APPLY ASPHALT EMULSION RS-1H FOR TACK COAT OVER BASE COURSE, INTERMEDIATE COURSE AND MILLED SURFACES PRIOR TO PAVING OF THE PAVEMENT SURFACE COURSE.

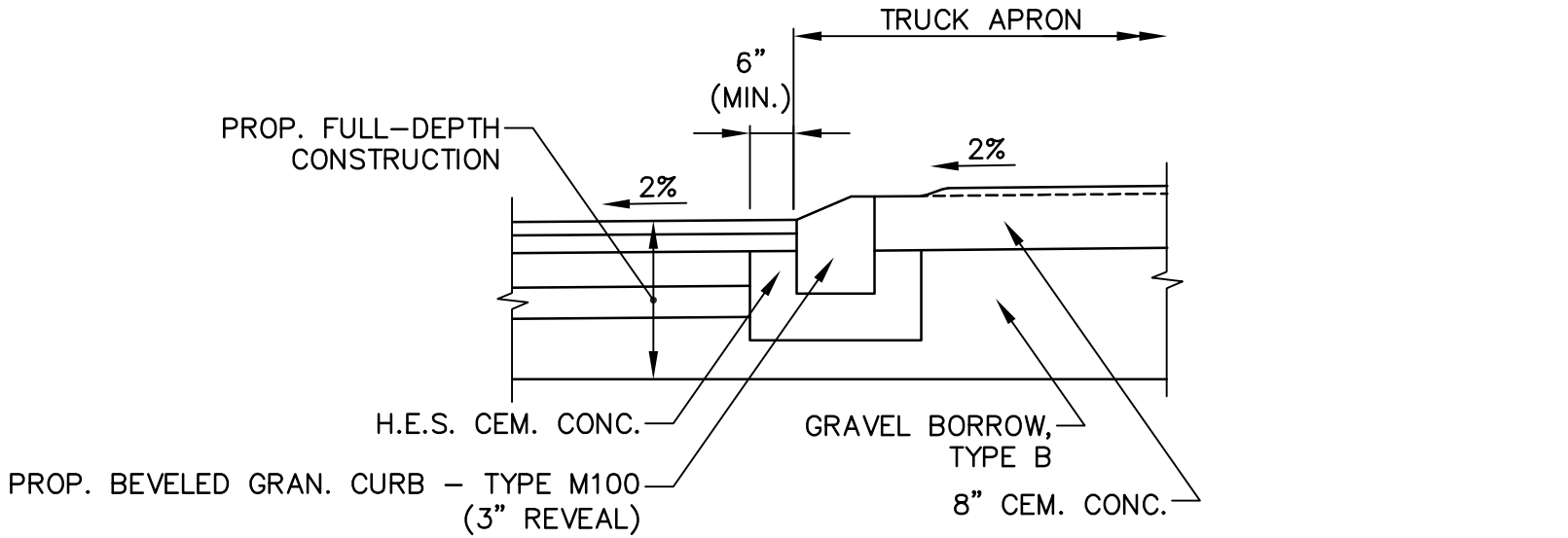
ASPHALT EMULSION FOR TACK COAT SHALL BE TRIPLE OVERLAP SPRAY APPLIED FOR UNIFORM COVERAGE AT A RATE OF 0.06 TO 0.08 GALLONS PER SQUARE YARD OVER SMOOTH PAVEMENT, AT A RATE OF 0.07 TO 0.09 GALLONS PER SQUARE YARD OVER GROOVED OR MILLED SURFACES AND AT A RATE EQUAL TO THE SPRAY APPLICATION ON ADJACENT SURFACES FOR CEMENT CONCRETE BASE COURSES.

ALL TACK COAT APPLICATIONS SHALL ADHERE TO SUBSECTION 450.43 OF THE STANDARD SPECIFICATIONS.

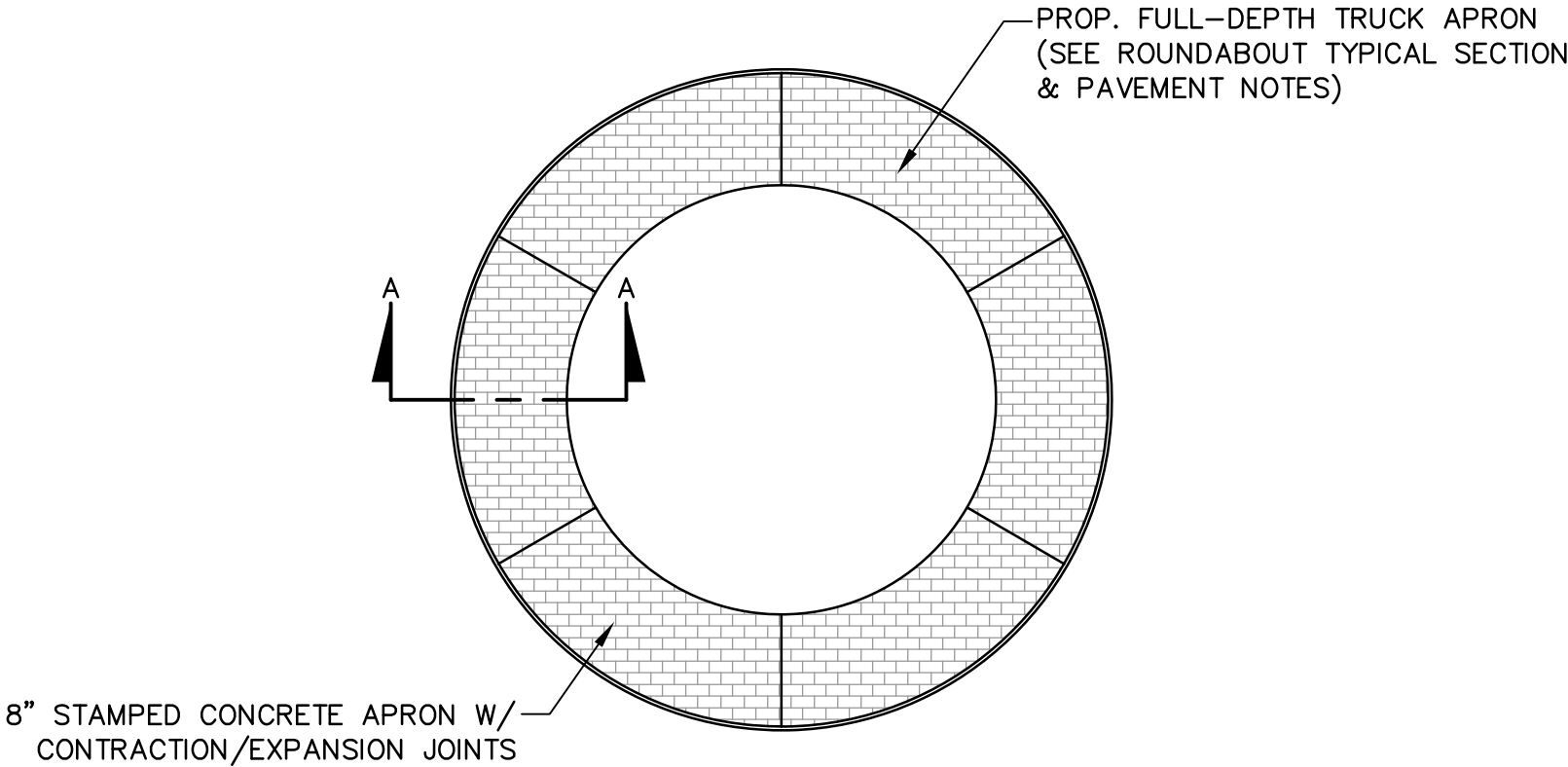
\* TEMPORARY PAVED AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FULL-DEPTH CONSTRUCTION (WIDENING 4'-0" OR GREATER), BUT SHALL EXCLUDE SURFACE COURSE PAVING.



DETAIL FOR BEVELED GRANITE CURB - TYPE M100  
NOT TO SCALE



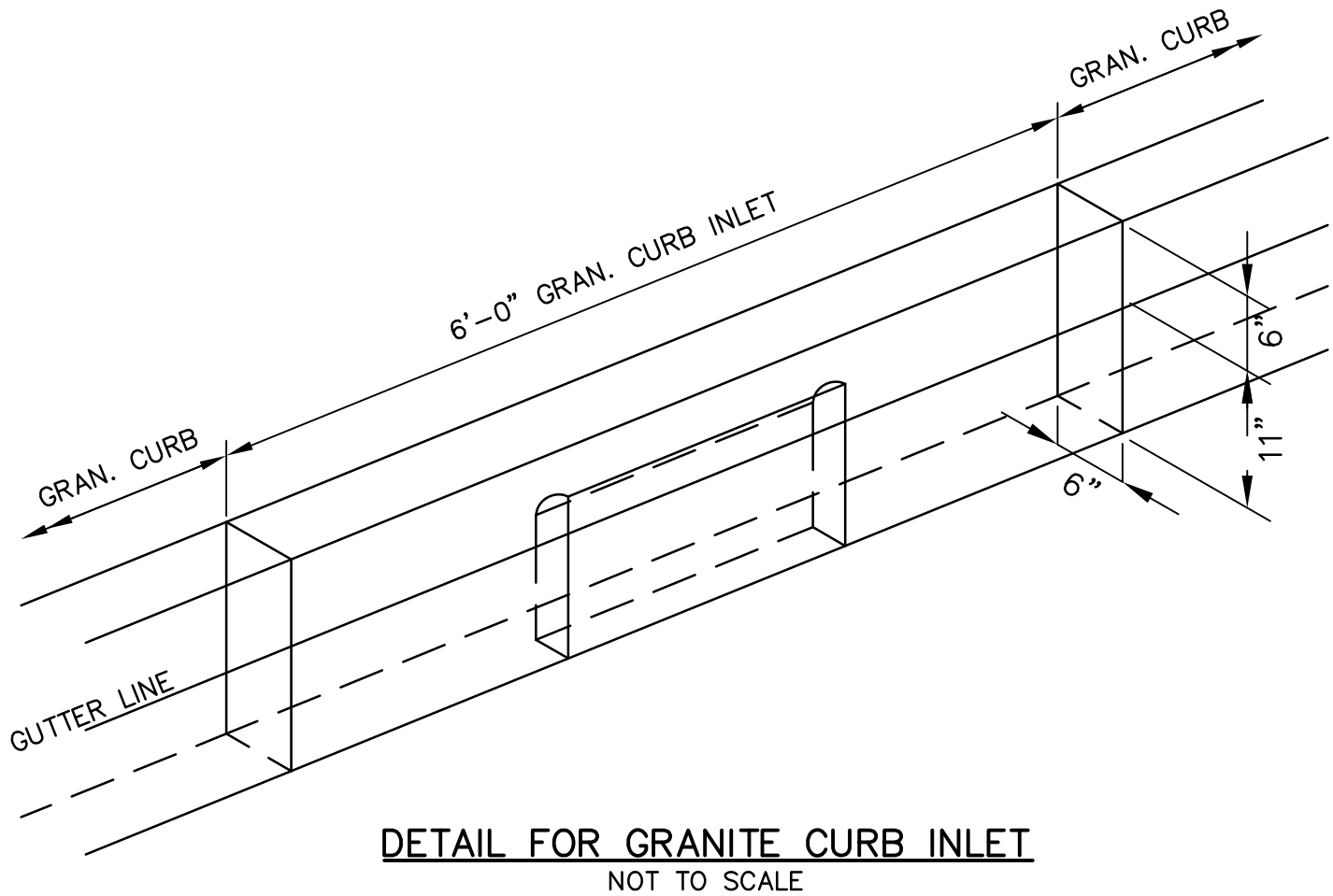
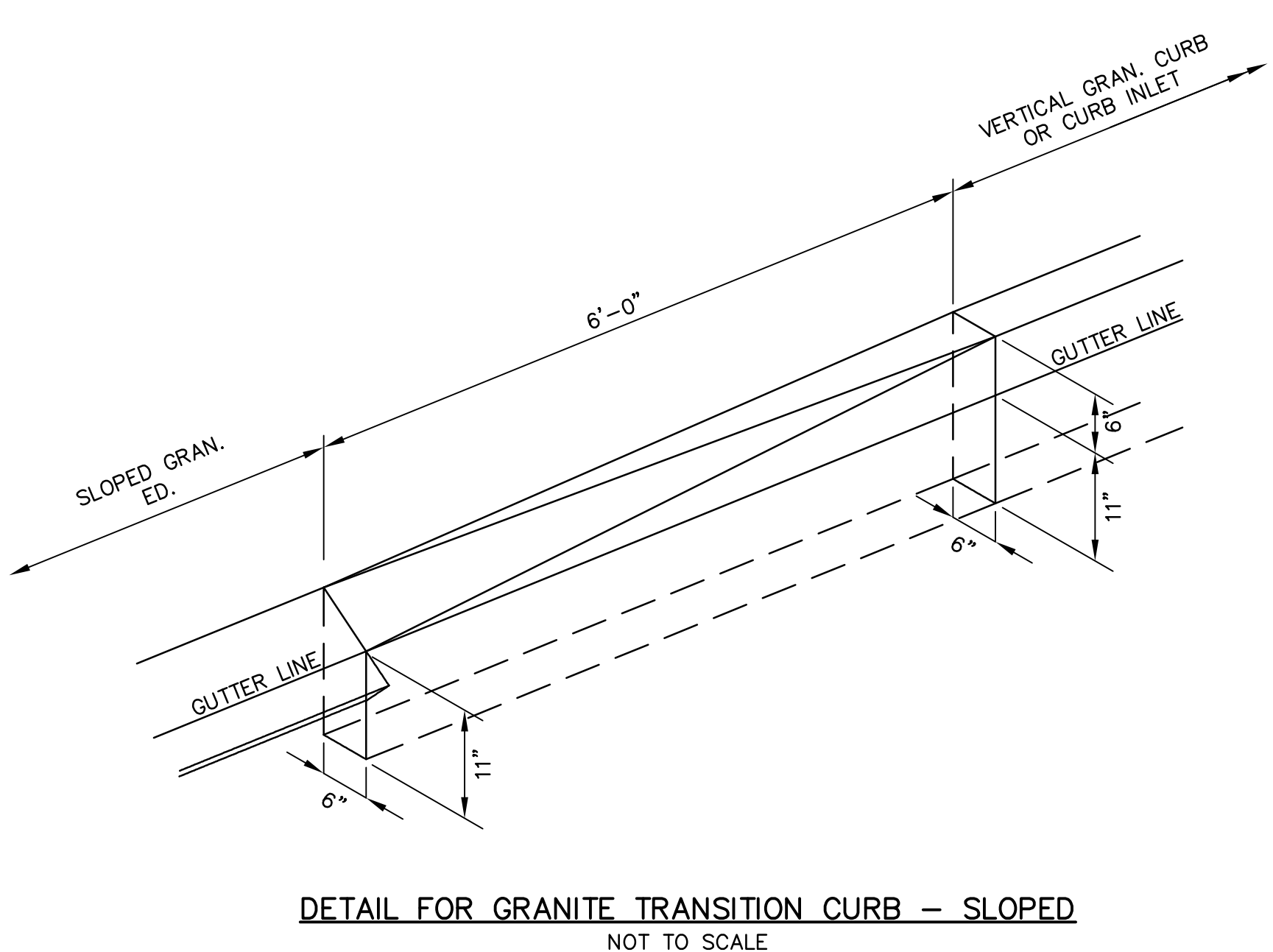
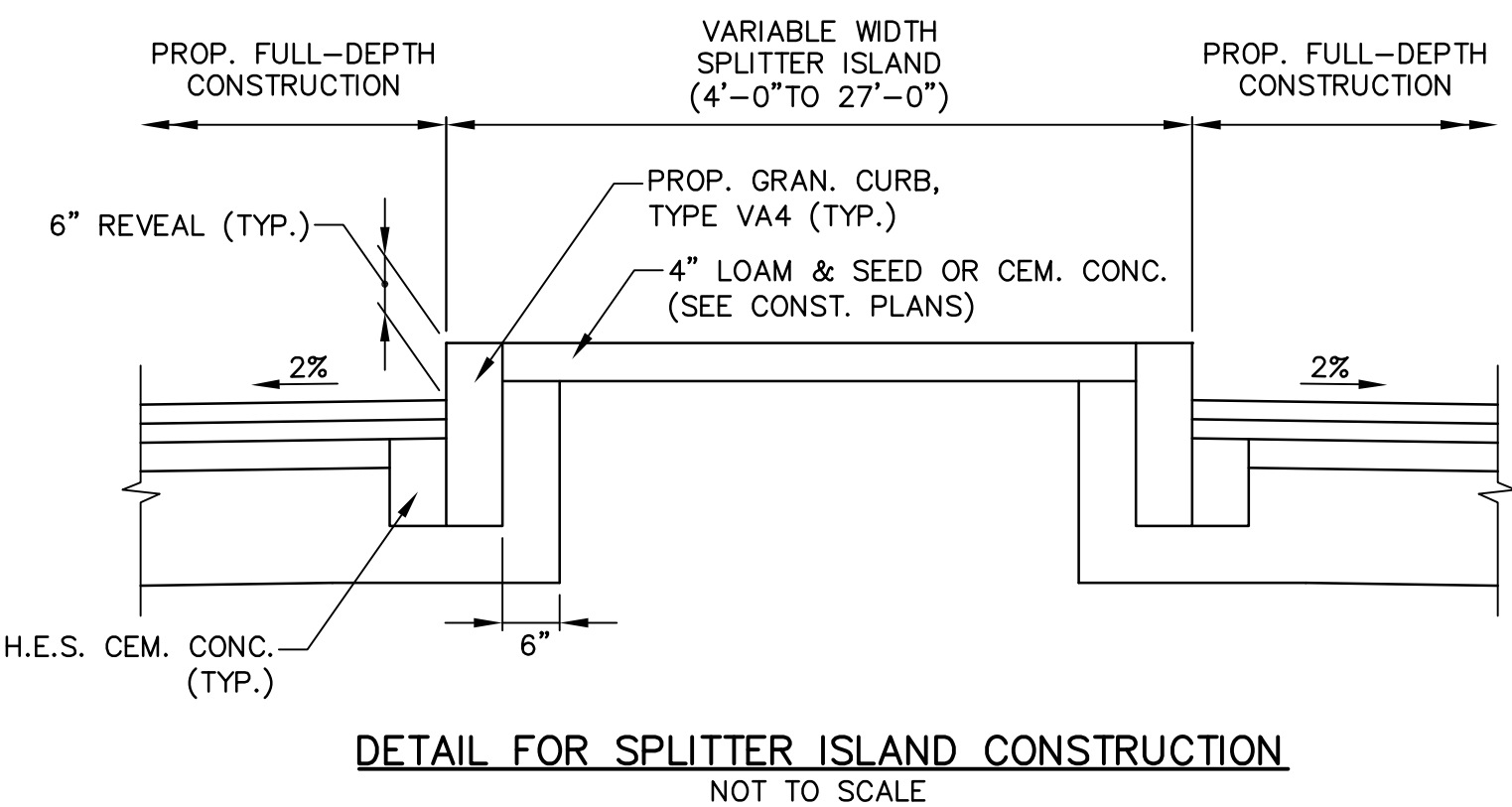
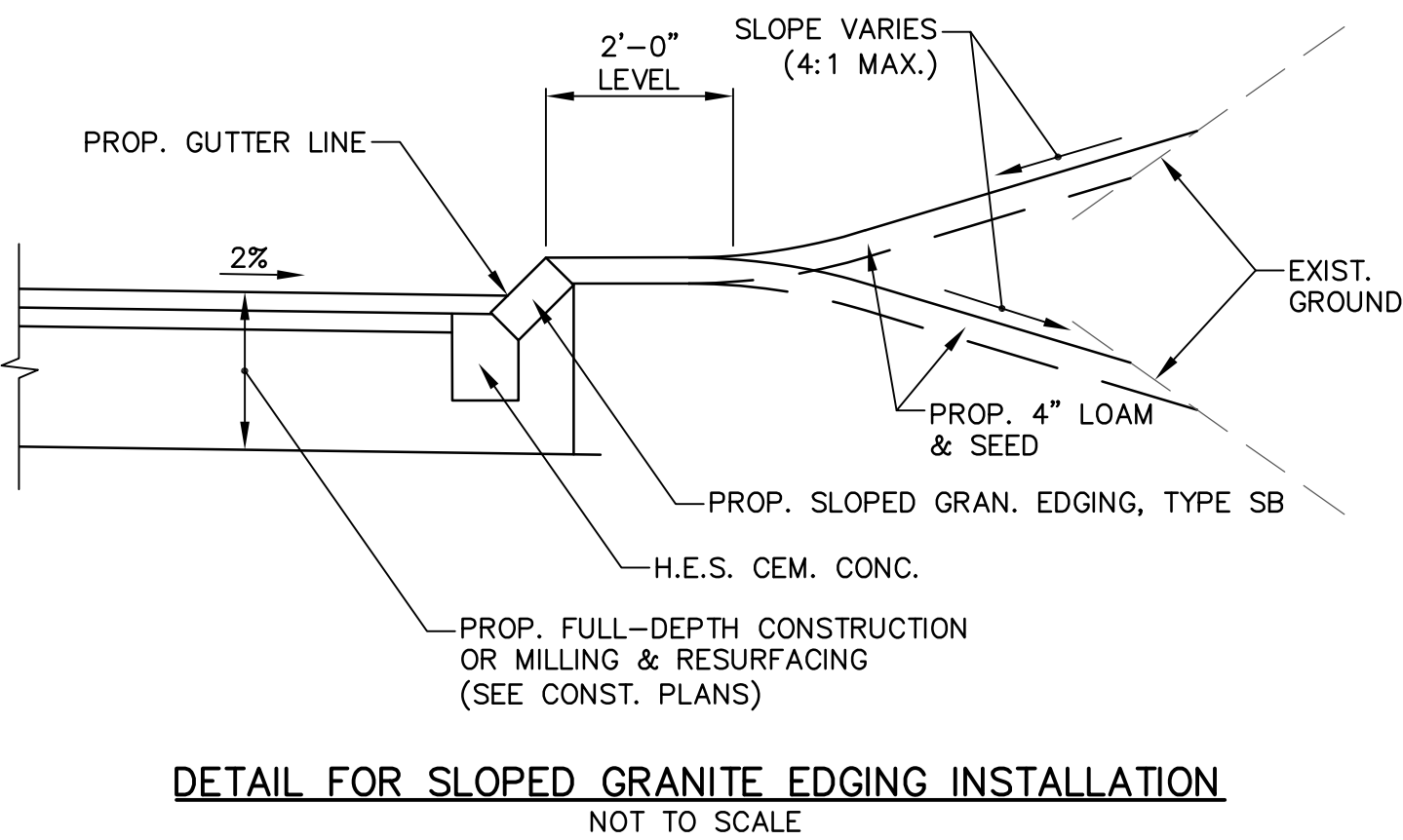
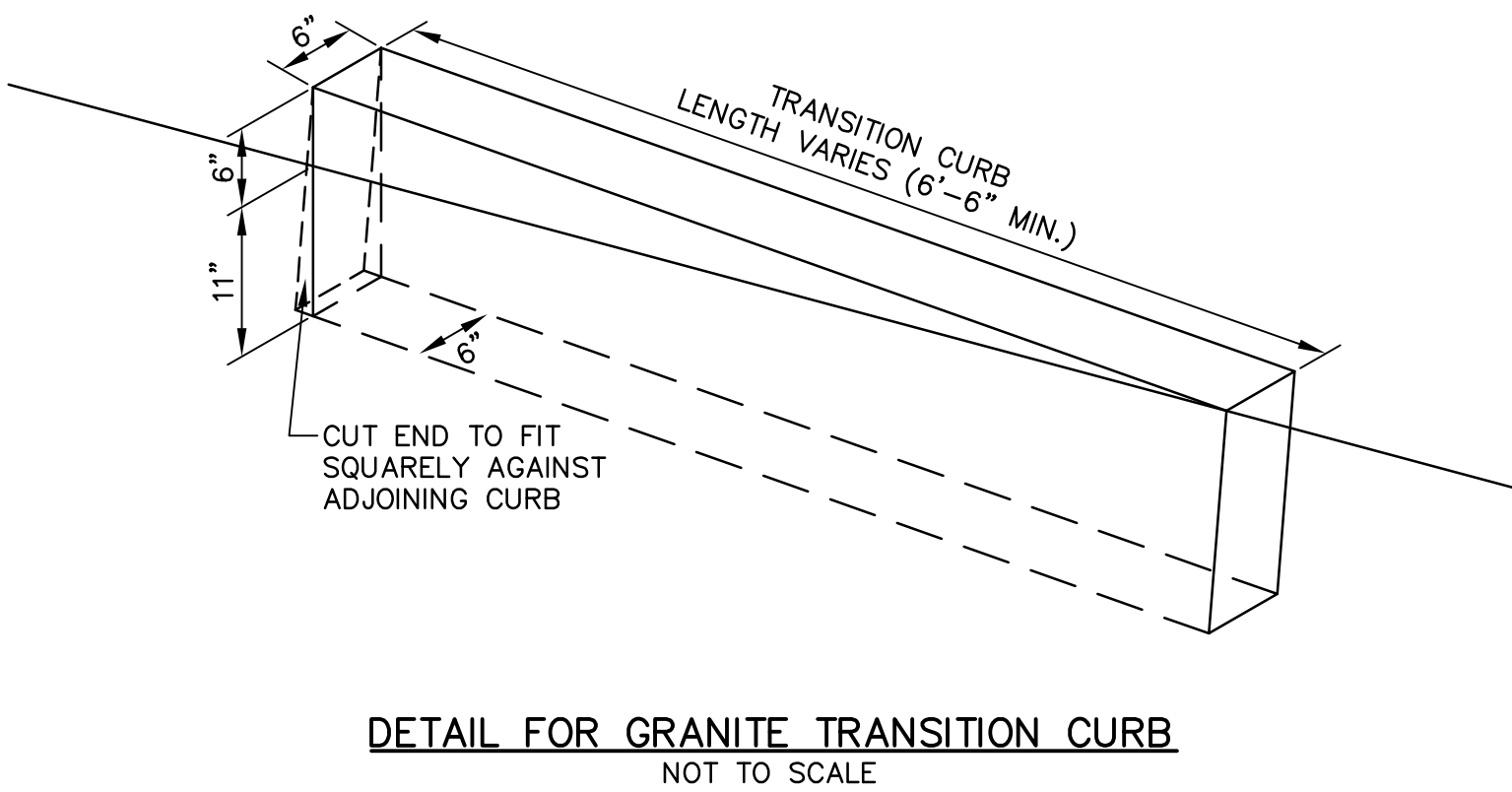
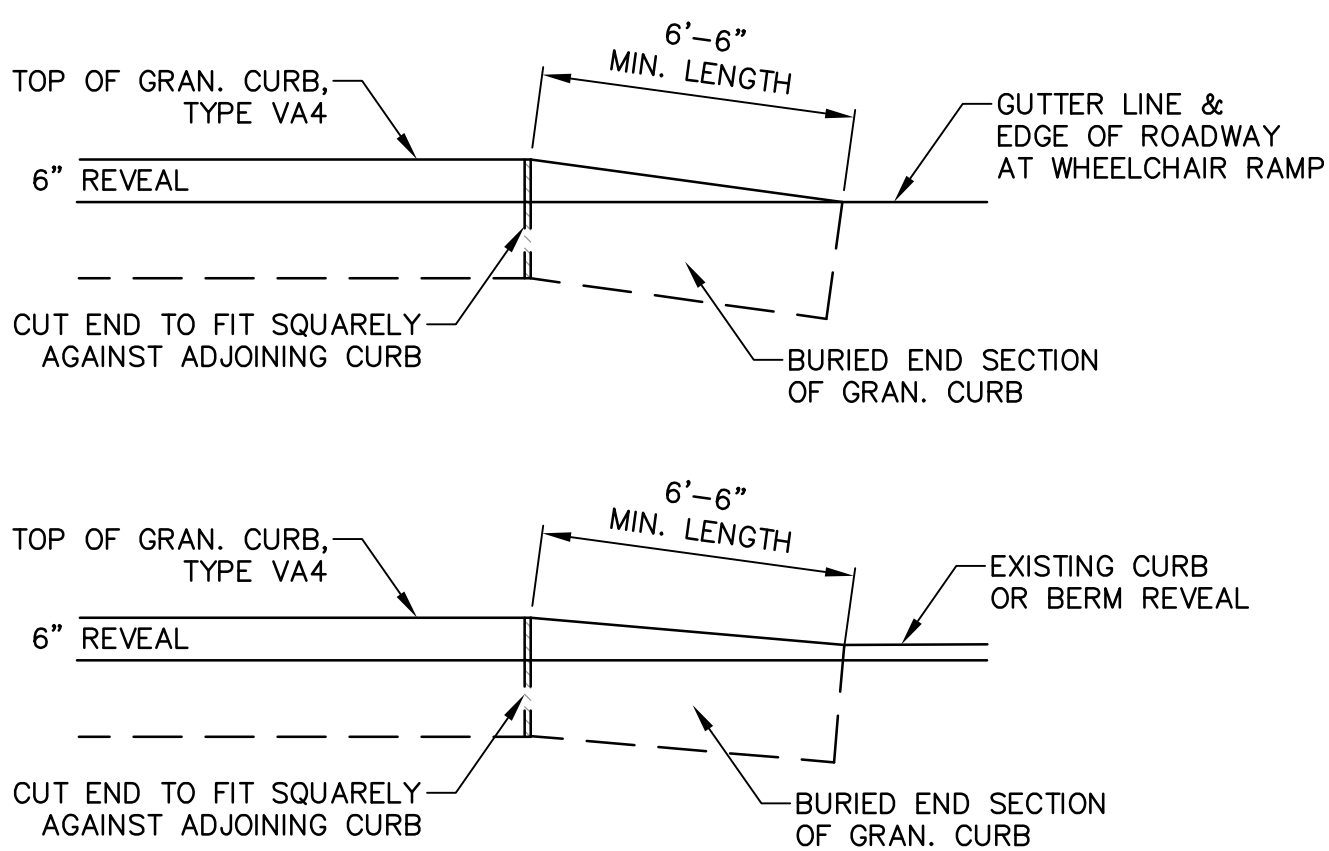
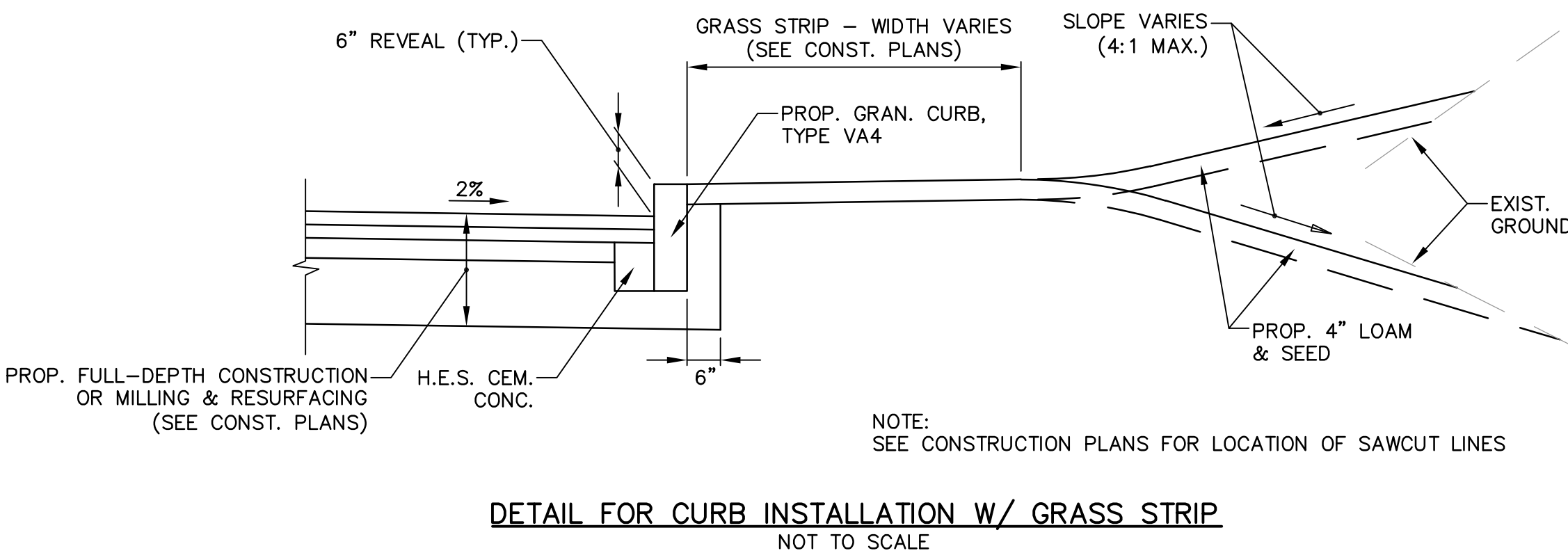
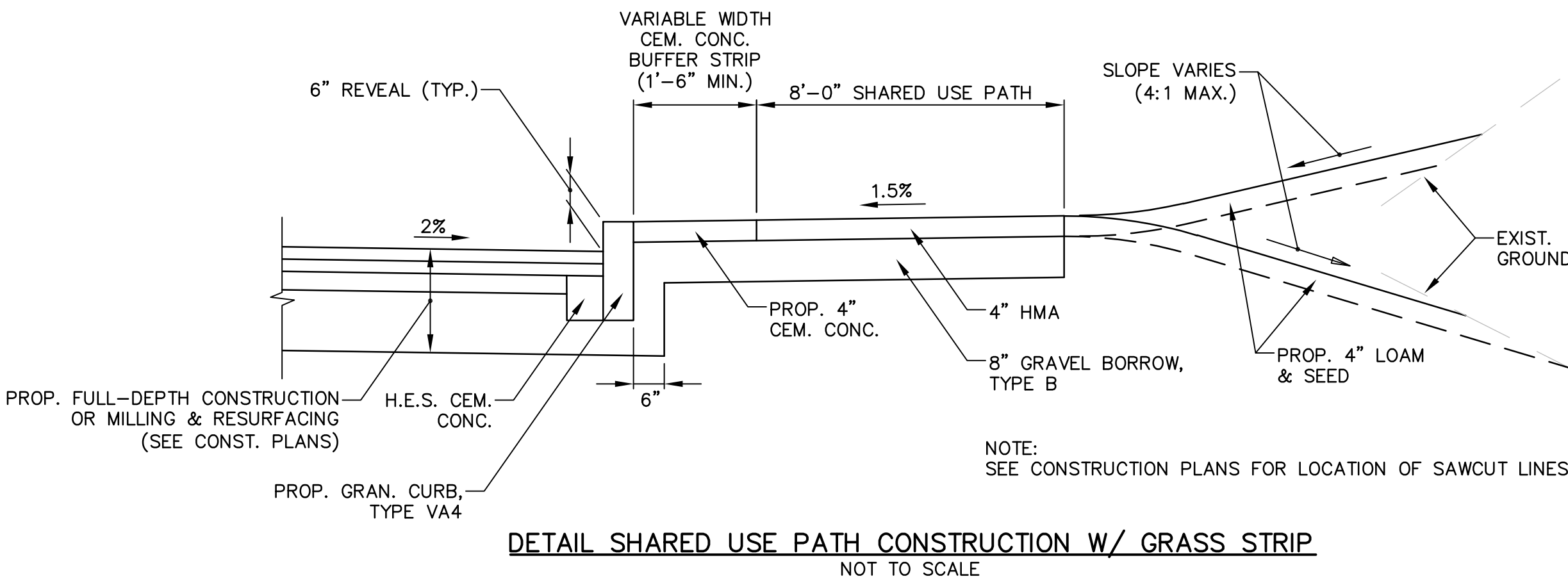
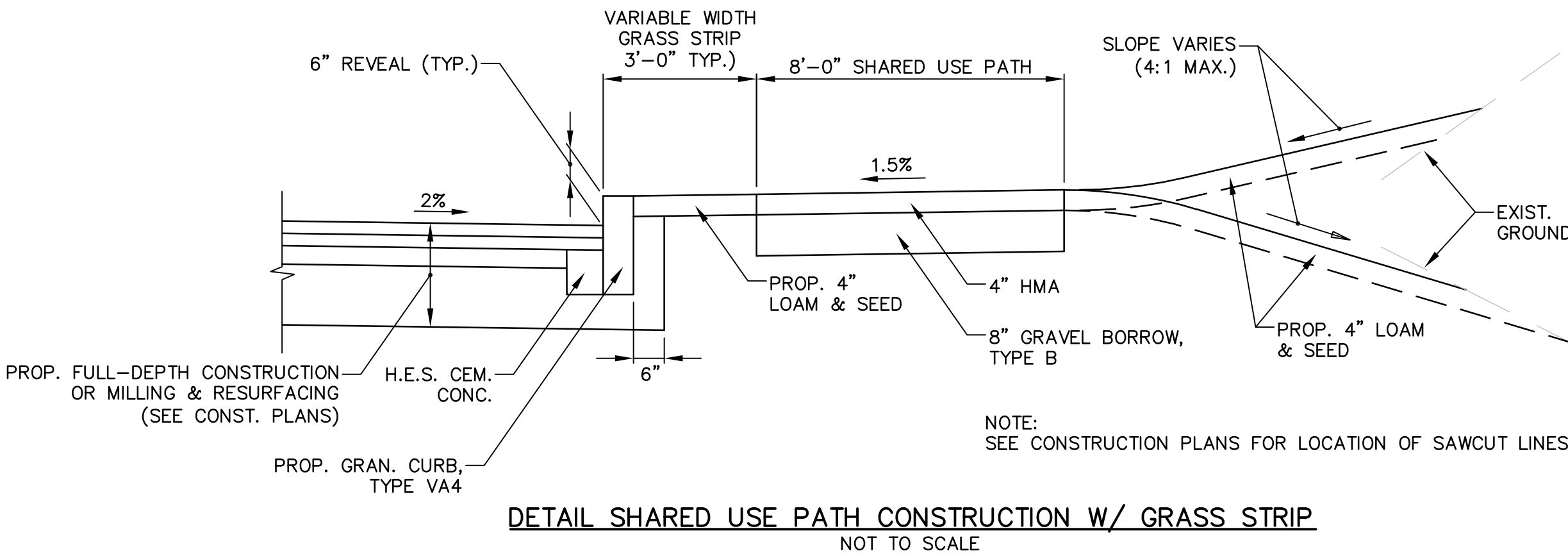
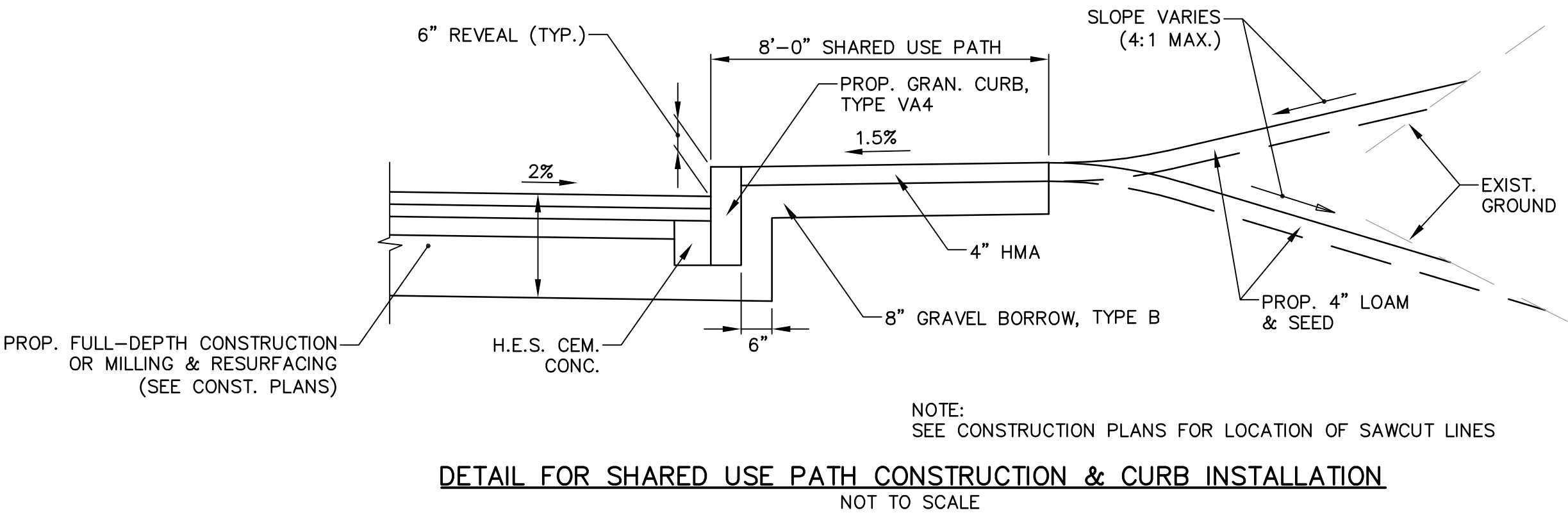
SECTION A-A



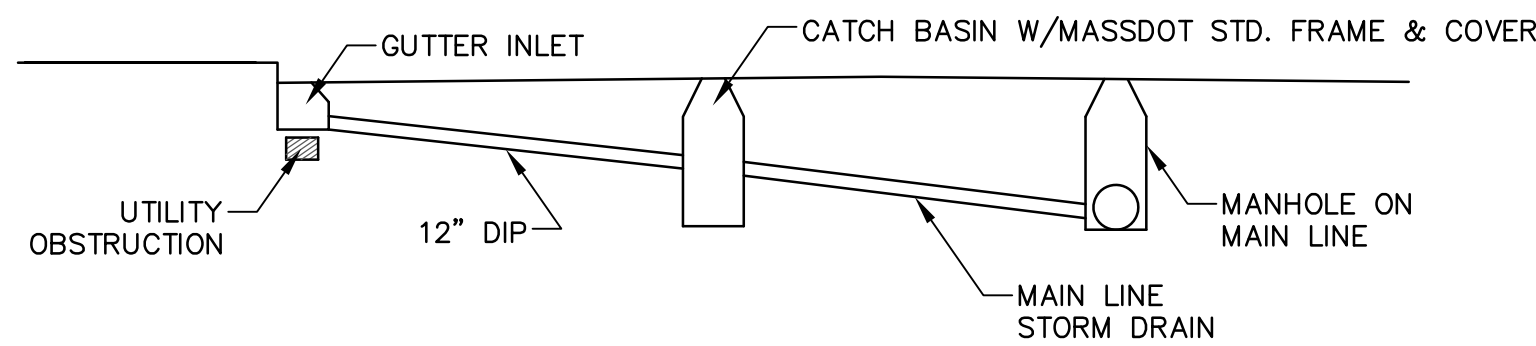
PLAN VIEW

DETAIL FOR CONCRETE TRUCK APRON  
NOT TO SCALE

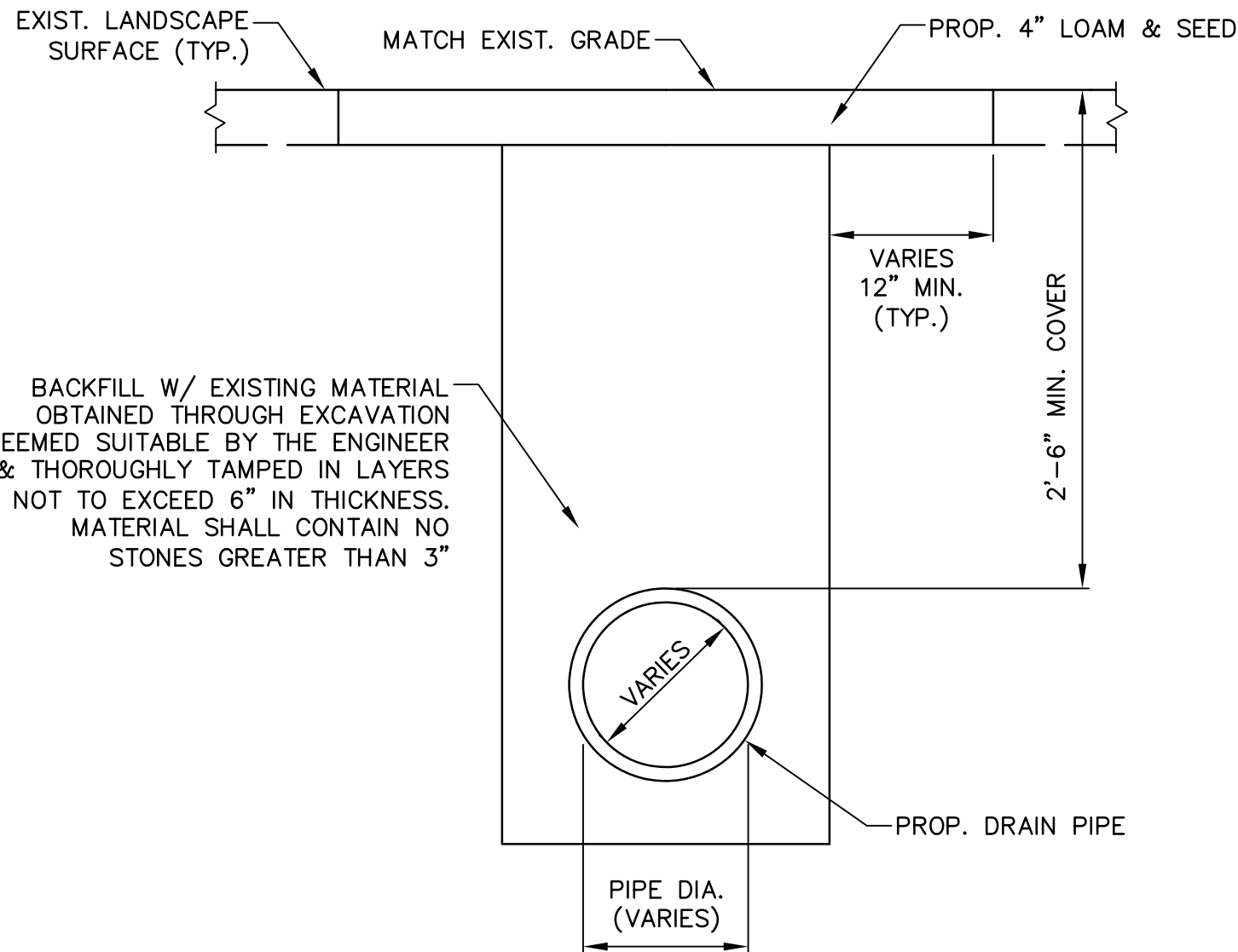
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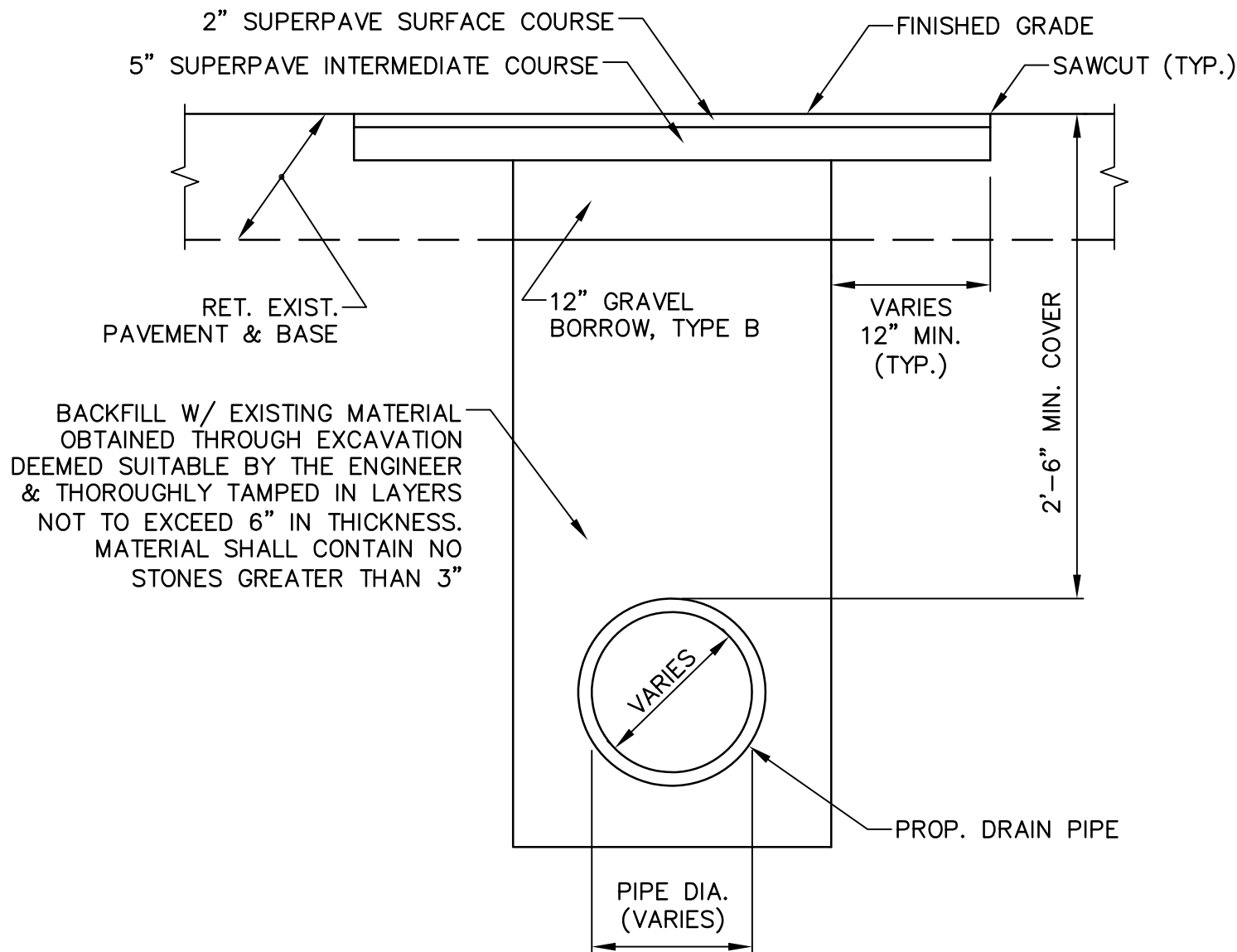
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CONSTRUCTION DETAILS			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Details.dwg	
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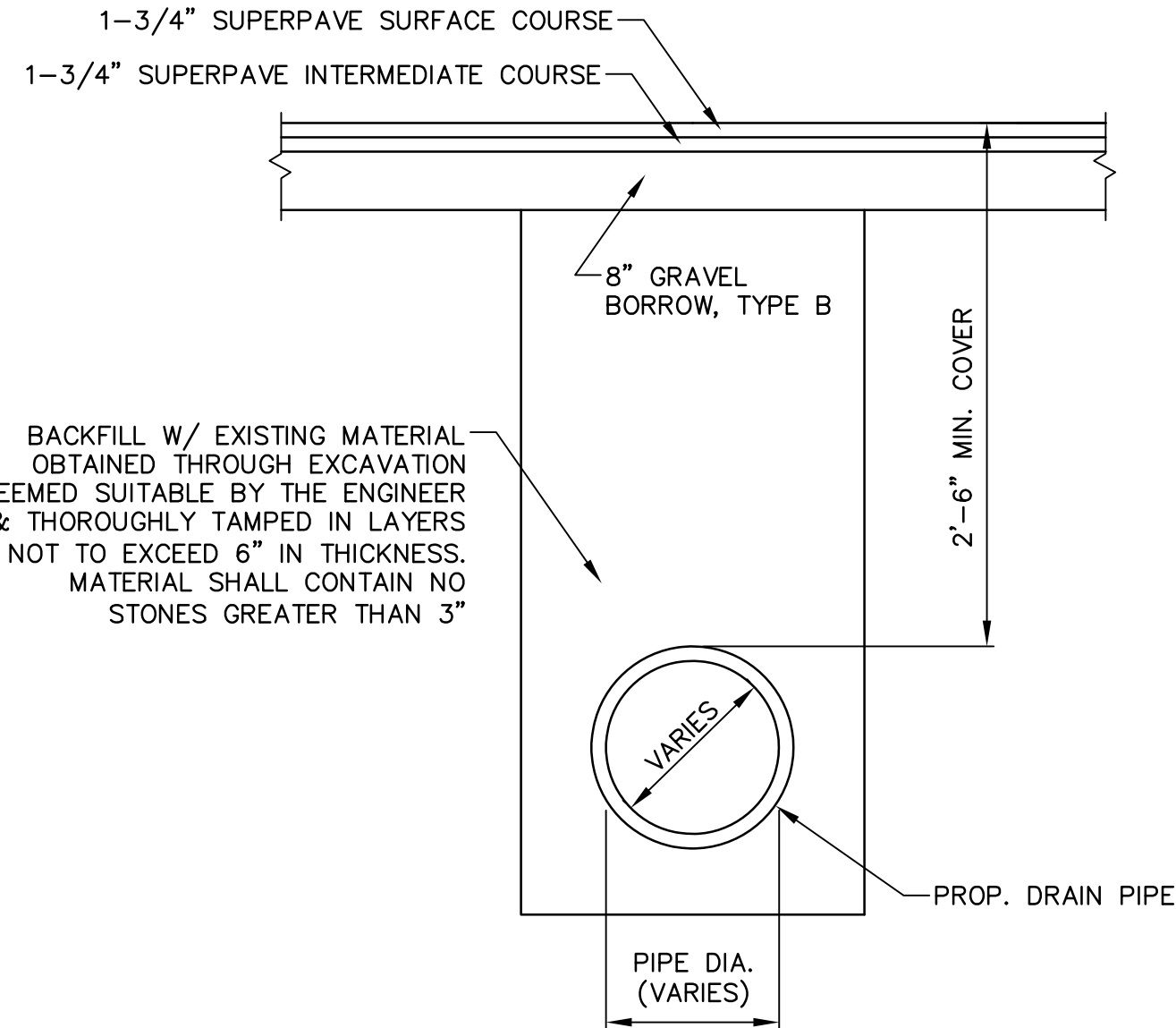
**CONTINGENCY DETAIL  
FOR STORM DRAIN LATERAL LINES**  
(USE ONLY IF OBSTRUCTION IS ENCOUNTERED)  
NOT TO SCALE



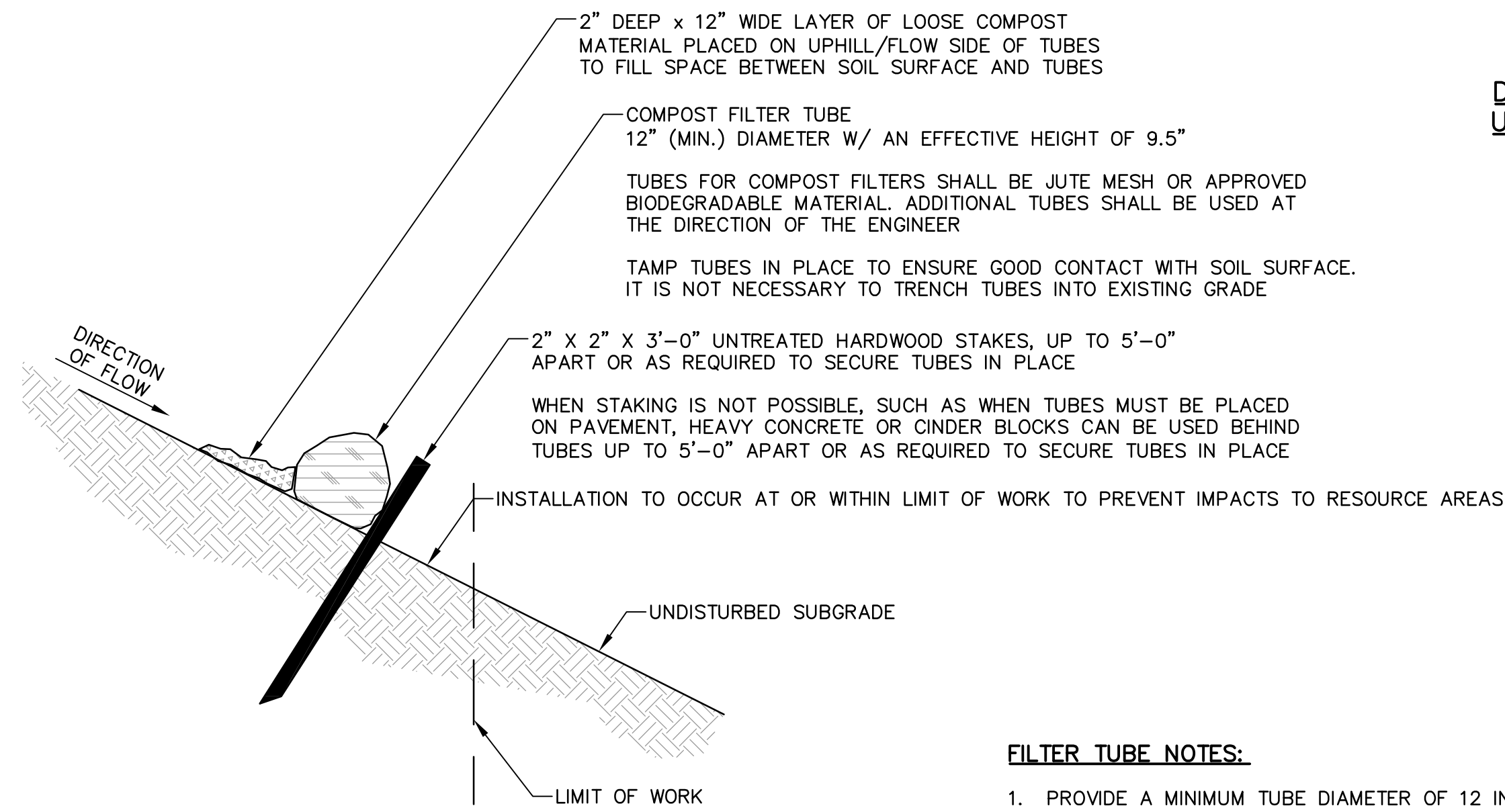
**DETAIL FOR DRAINAGE PIPE  
UNDER LANDSCAPED AREAS**  
NOT TO SCALE



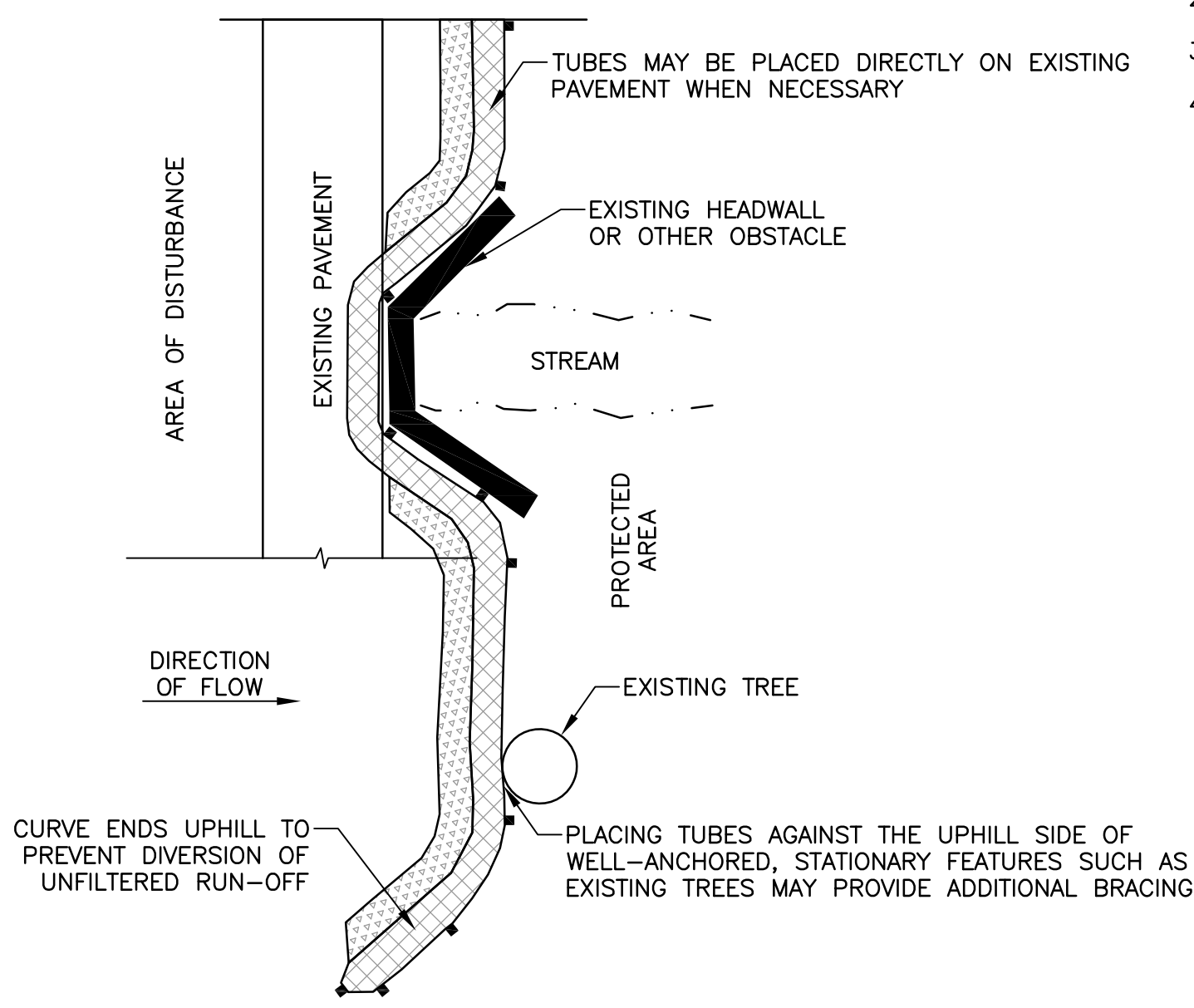
**DETAIL FOR DRAINAGE PIPE UNDER ROADWAY  
IN MILLING & RESURFACING AREAS**  
NOT TO SCALE



**DETAIL FOR DRAINAGE PIPE UNDER SIDEWALK**  
NOT TO SCALE



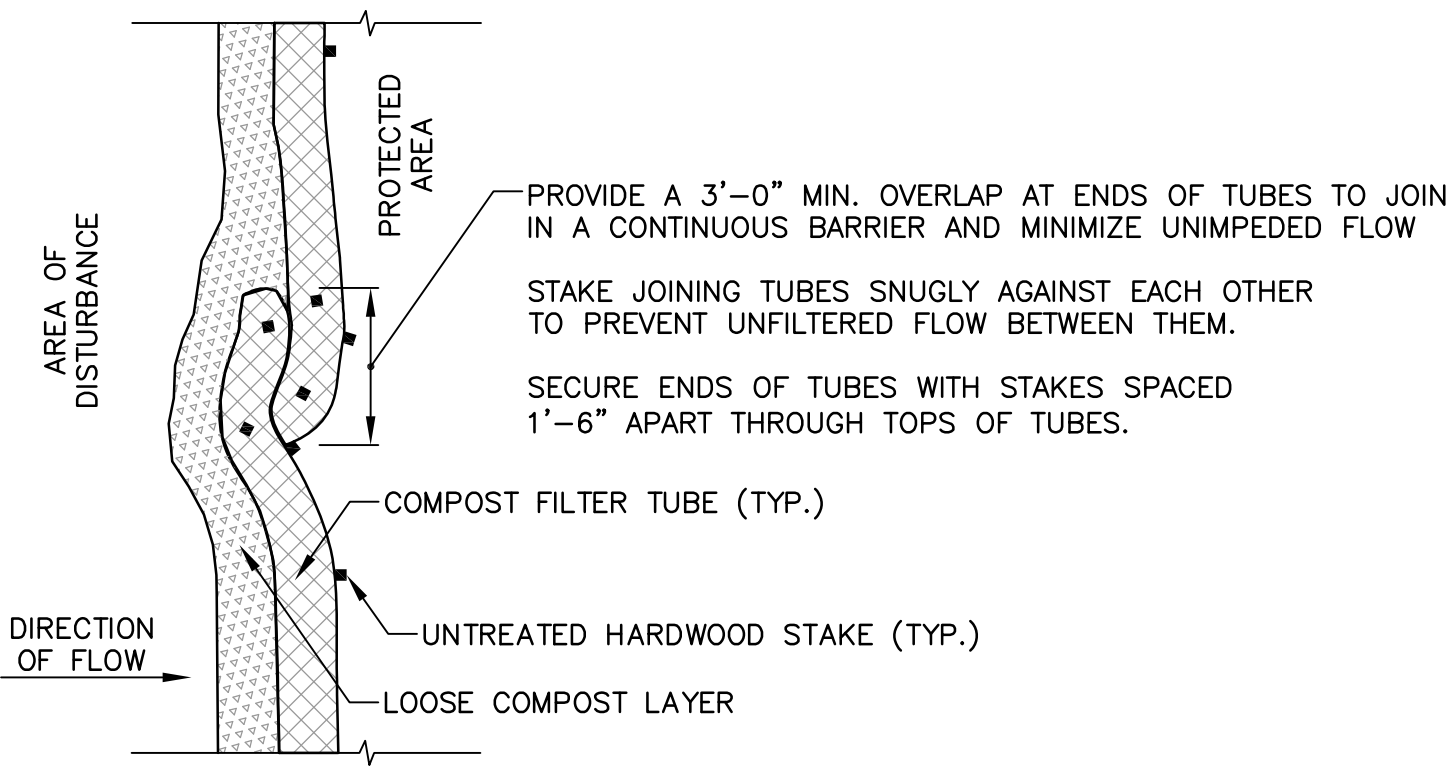
**SECTION VIEW**



**PLAN VIEW**

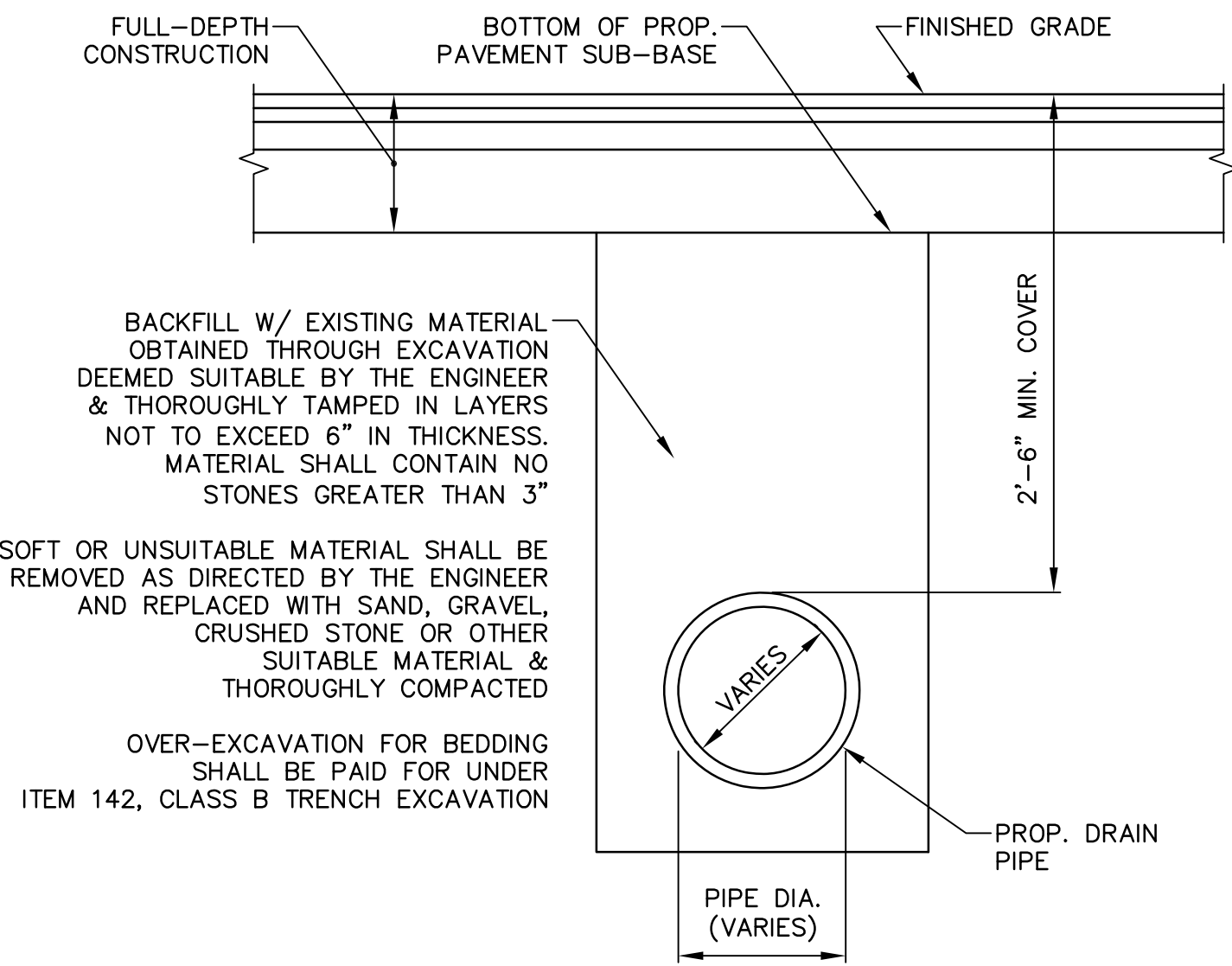
**FILTER TUBE NOTES:**

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.

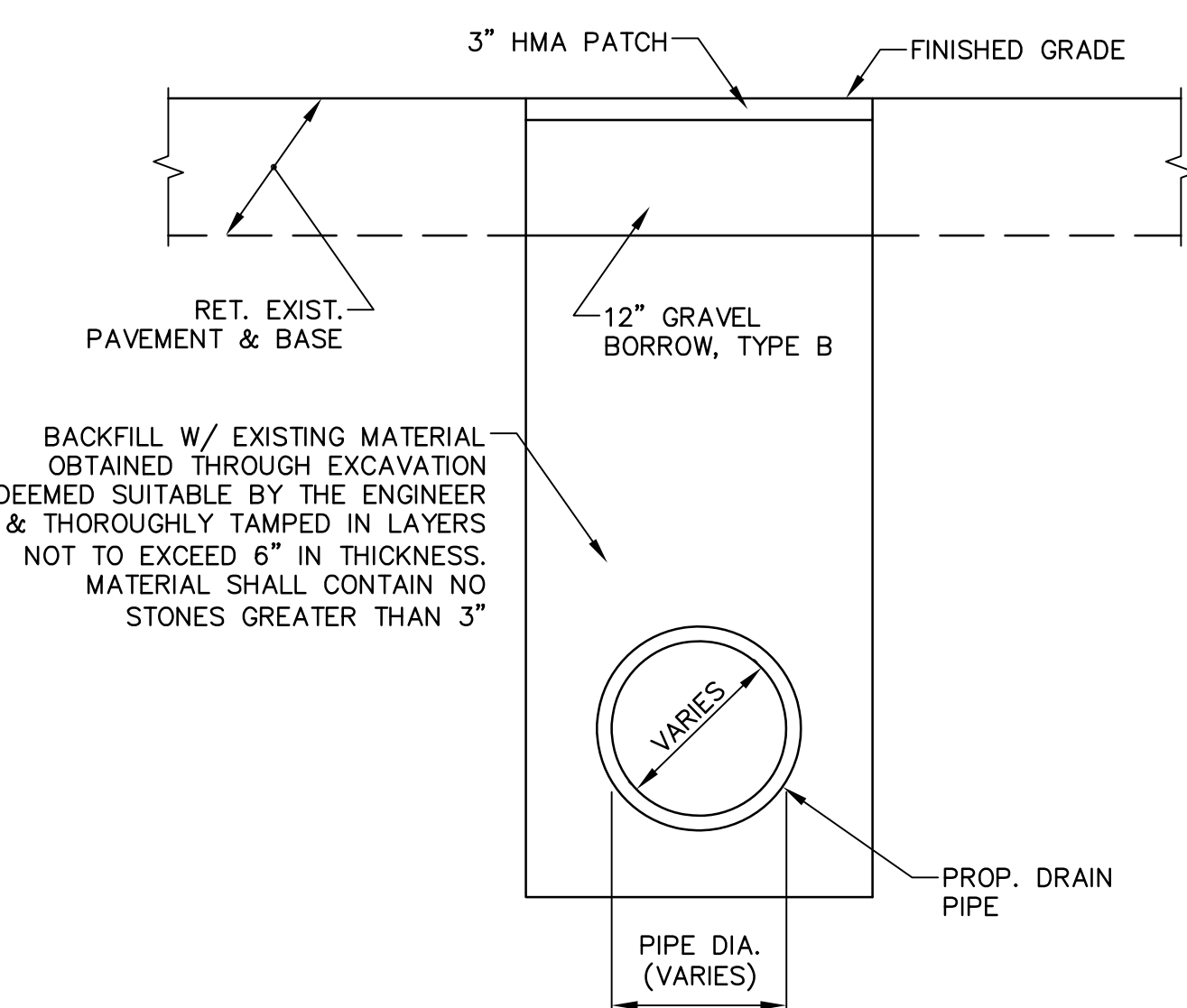


**PLAN VIEW - OVERLAP DETAIL**

**DETAIL FOR SINGLE COMPOST FILTER TUBE**  
NOT TO SCALE

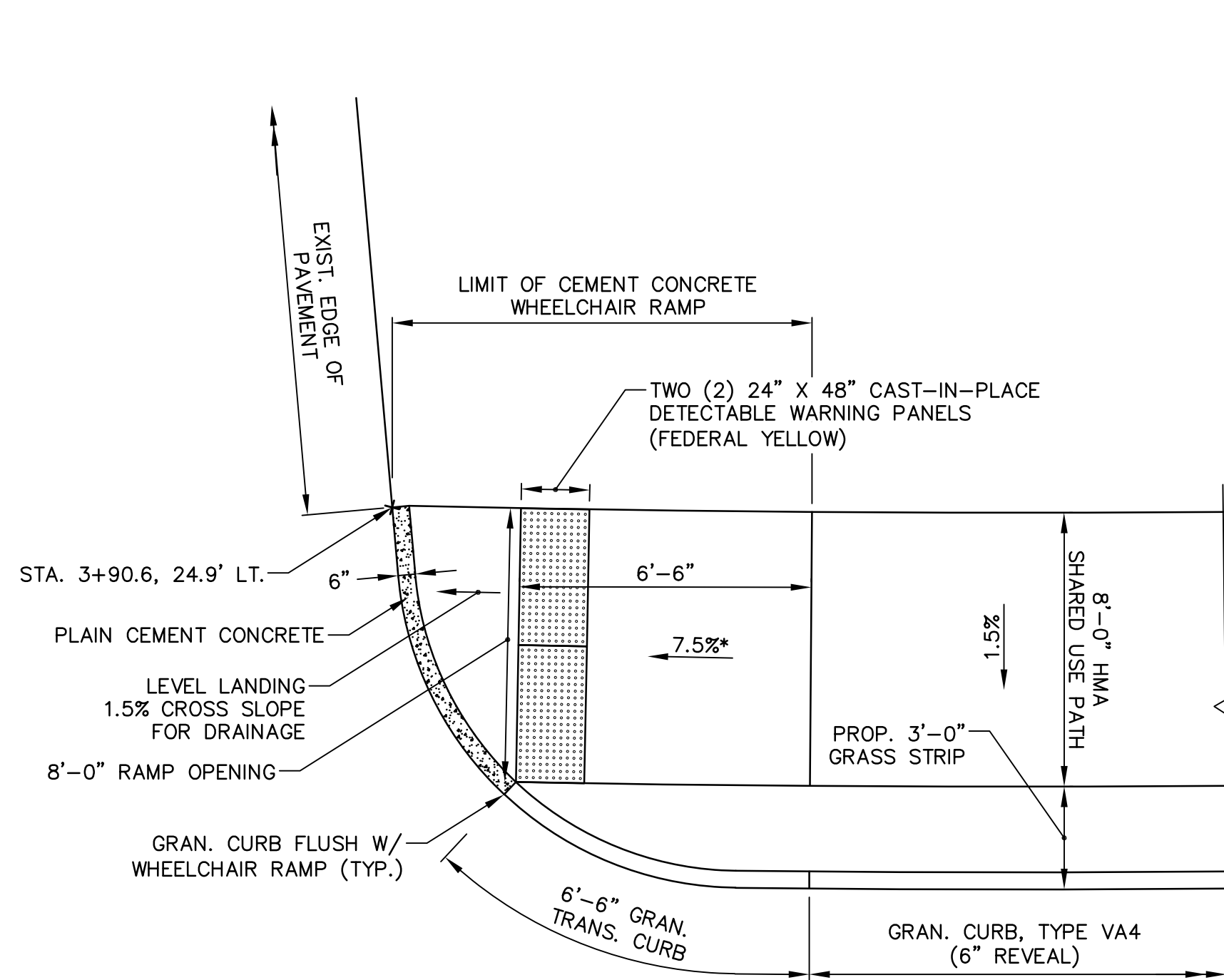


**DETAIL FOR DRAINAGE PIPE UNDER ROADWAY  
IN FULL-DEPTH CONSTRUCTION AREAS**  
NOT TO SCALE

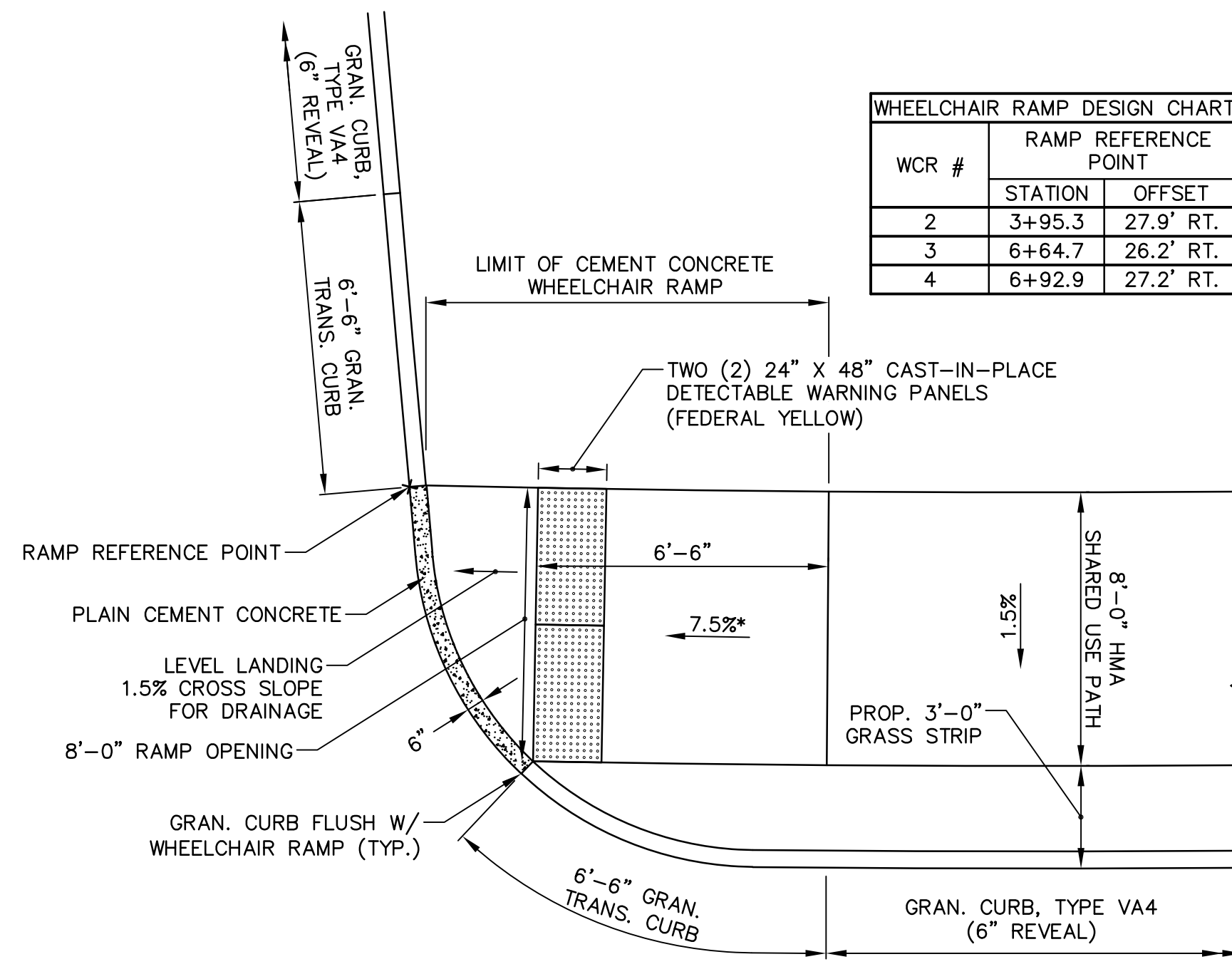


**DETAIL FOR TEMPORARY TRENCH PATCHING  
IN FULL-DEPTH CONSTRUCTION AREAS**  
NOT TO SCALE

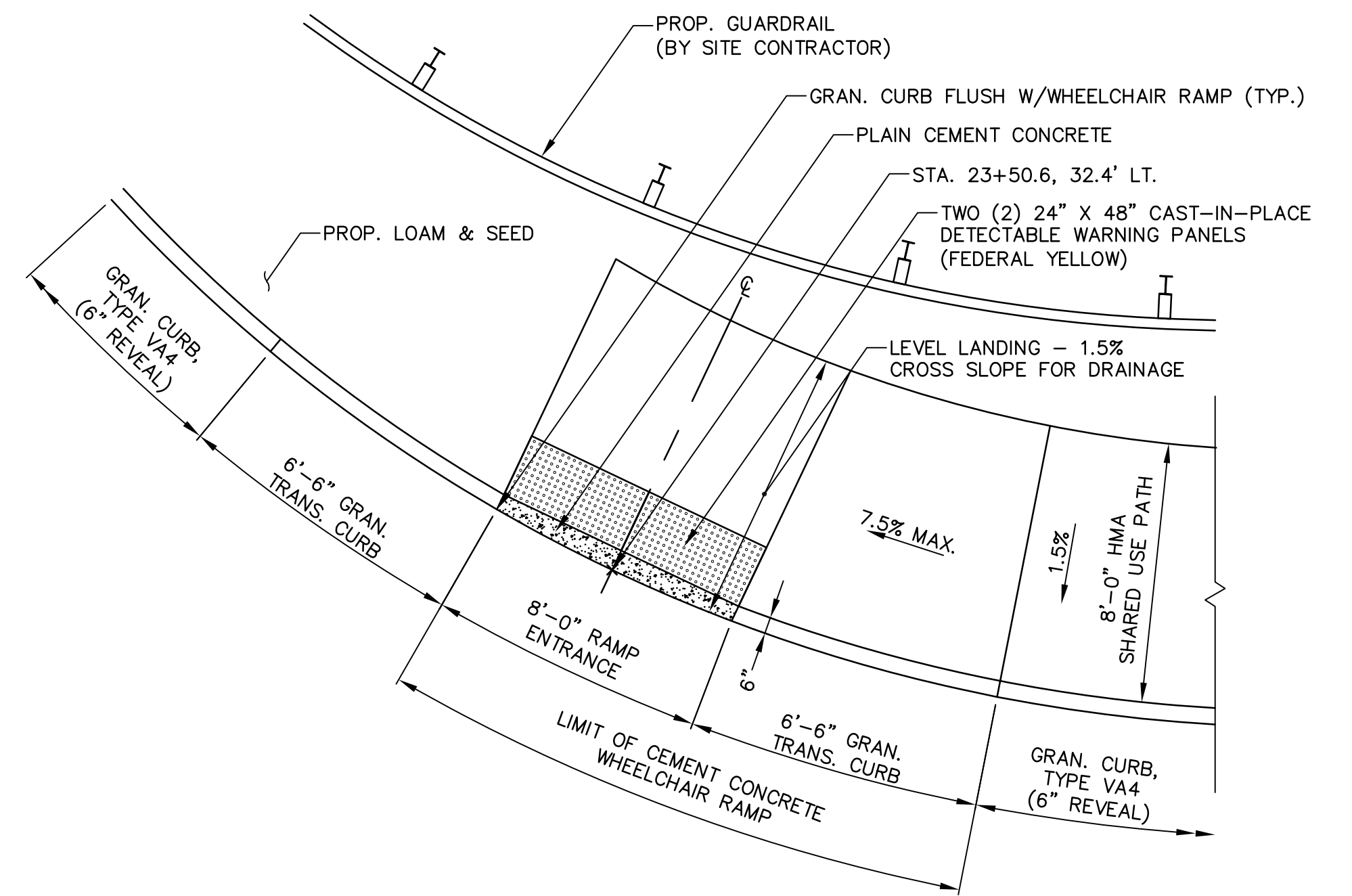
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DETAIL FOR WHEELCHAIR RAMP #1  
NOT TO SCALE



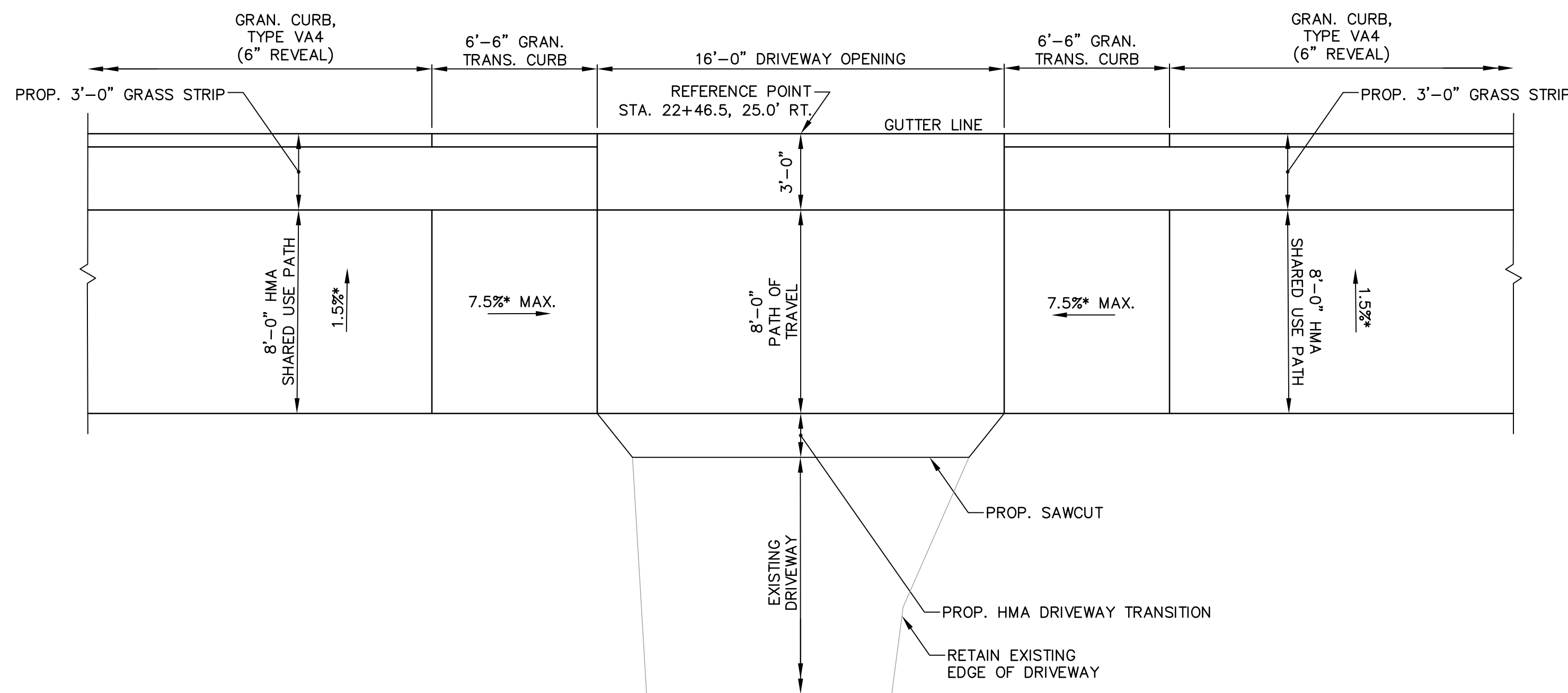
DETAIL FOR WHEELCHAIR RAMPS #2, 3, & 4  
NOT TO SCALE



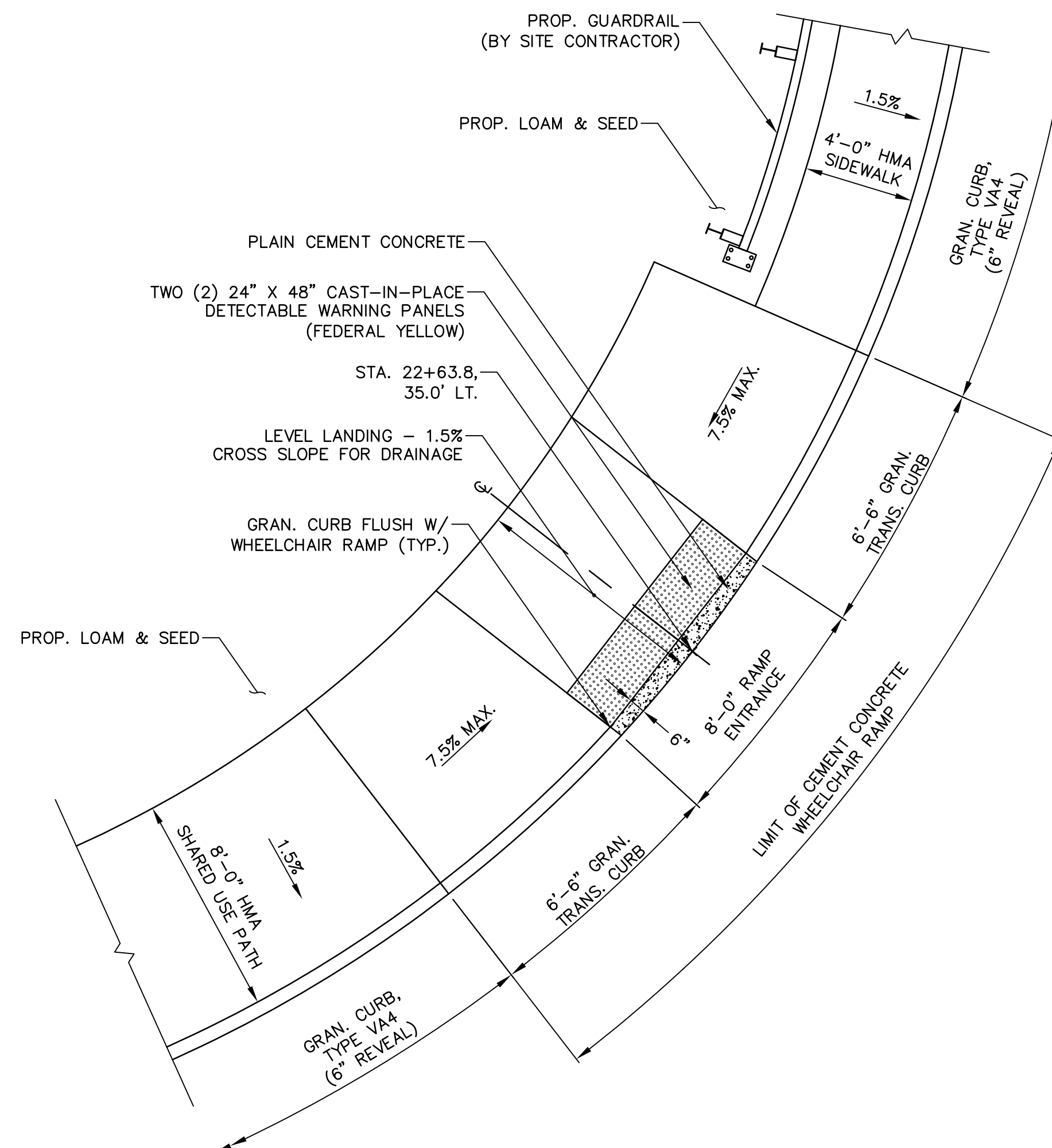
DETAIL FOR WHEELCHAIR RAMP #22  
NOT TO SCALE

#### WHEELCHAIR RAMP NOTES:

- 1.) CONSTRUCTION TOLERANCE  $\pm 0.5\%$   
SEE CONSTRUCTION STANDARD E 107.2.1R
- 2.) SEE CONSTRUCTION STANDARDS E 107.6.5R  
FOR DETECTABLE WARNING PANELS
- 3.) ALL DETECTABLE WARNING PANELS SHALL BE  
FEDERAL YELLOW

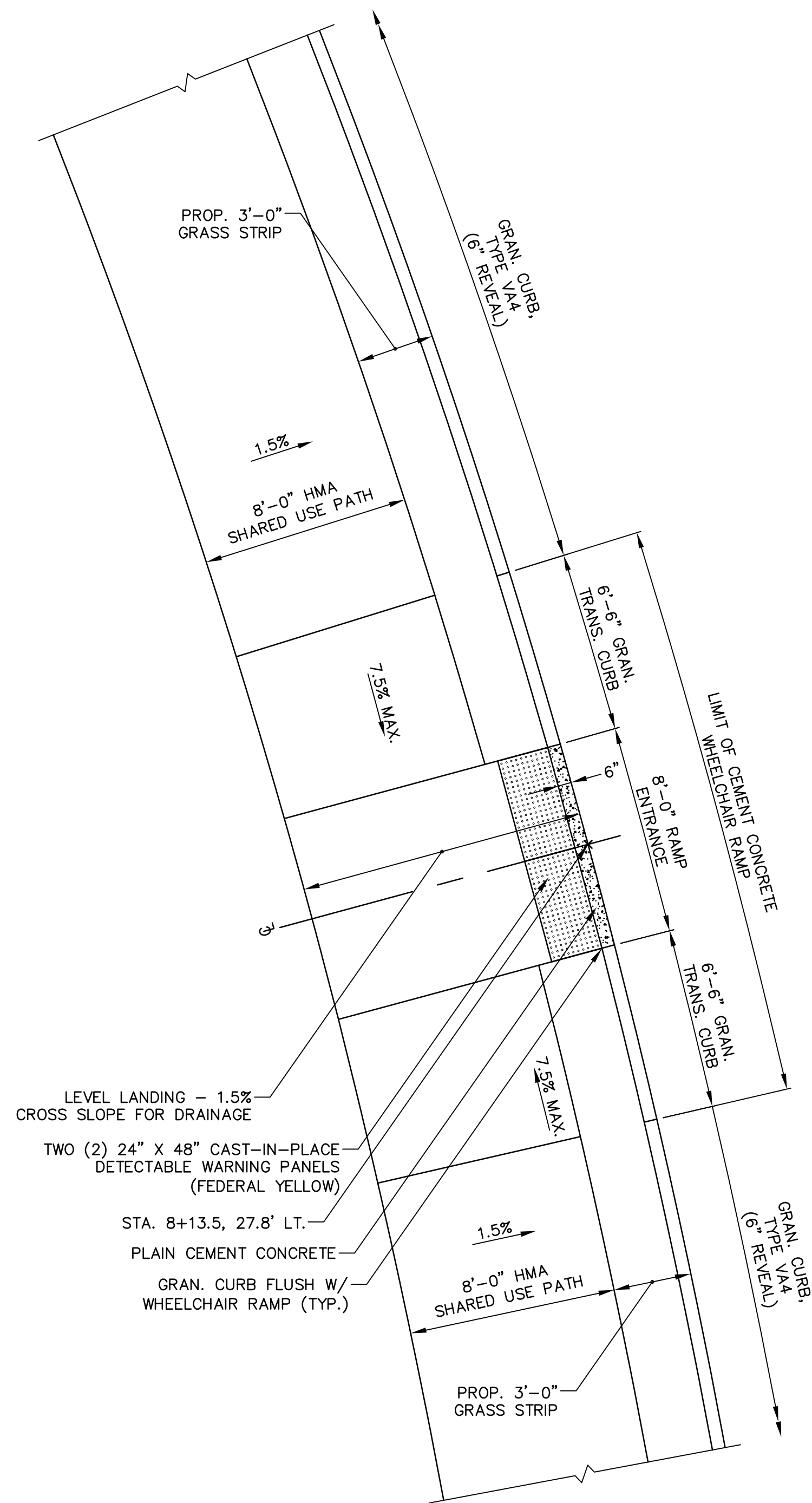


DETAIL FOR DRIVEWAY #1  
NOT TO SCALE

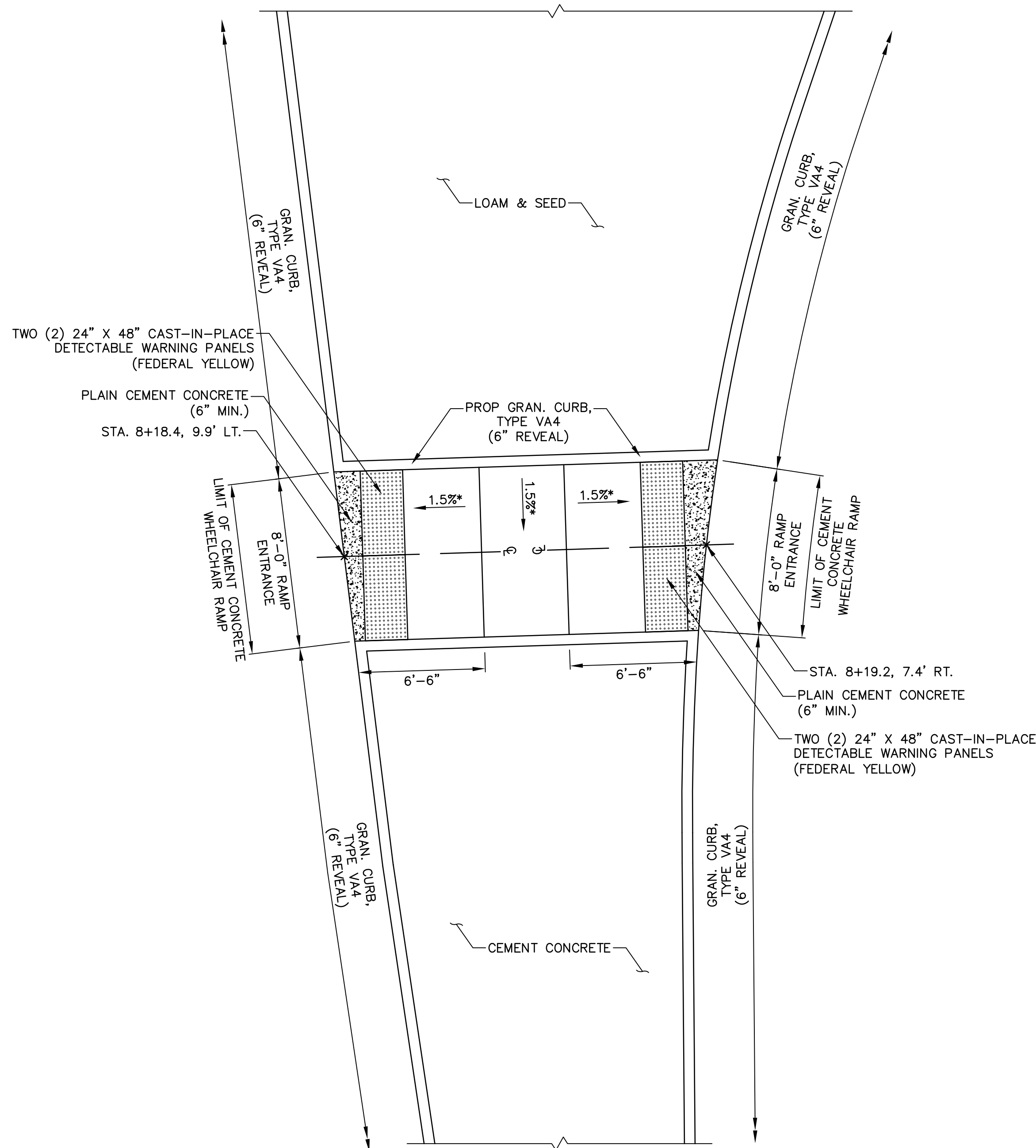


DETAIL FOR WHEELCHAIR RAMP #21  
NOT TO SCALE

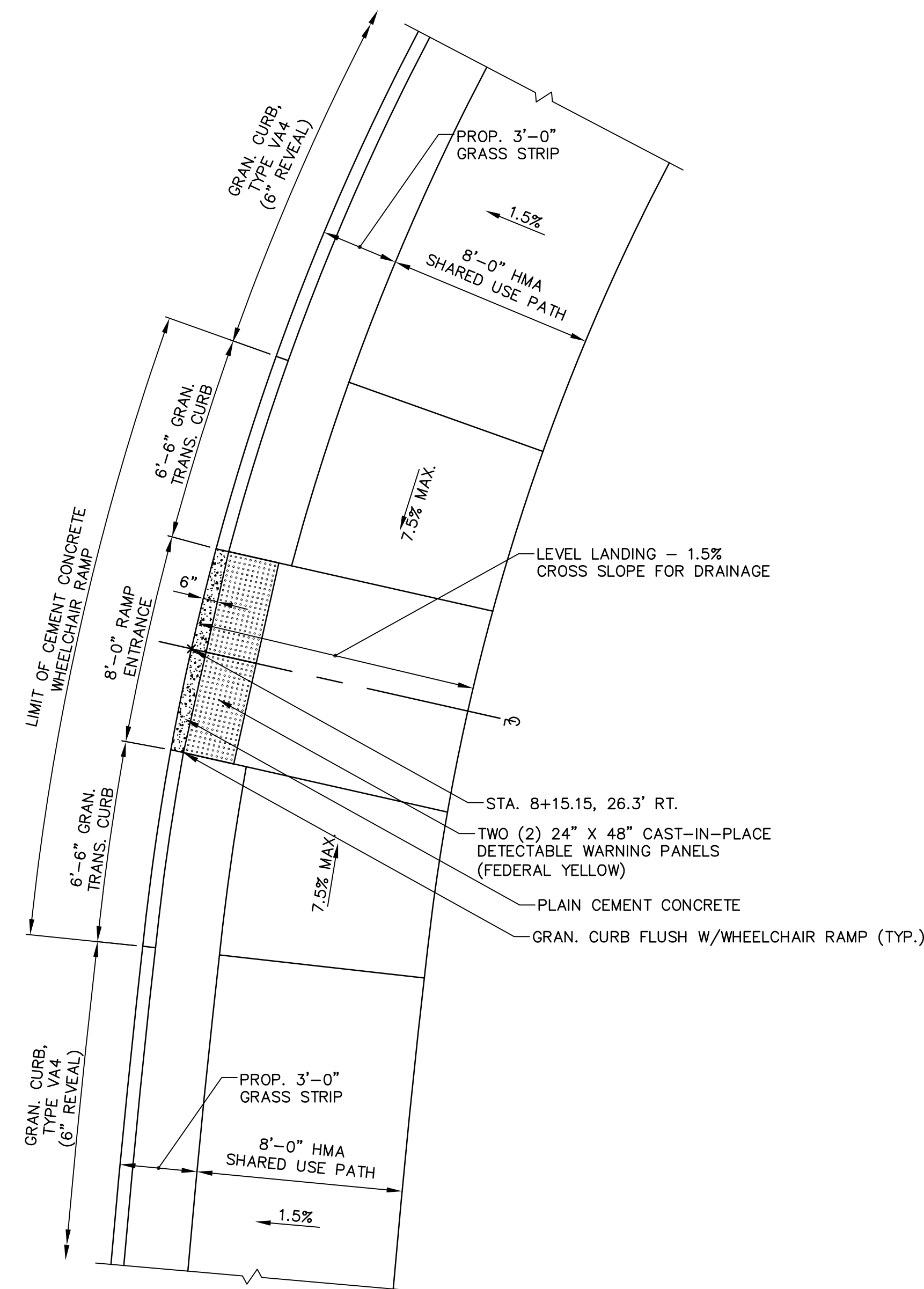
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DETAIL FOR WHEELCHAIR RAMP #5  
NOT TO SCALE



DETAIL FOR WHEELCHAIR RAMP #6 & 7  
NOT TO SCALE



DETAIL FOR WHEELCHAIR RAMP #8  
NOT TO SCALE

**WHEELCHAIR RAMP NOTES:**

- 1.) CONSTRUCTION TOLERANCE  $\pm 0.5\%$   
SEE CONSTRUCTION STANDARD E 107.2.1R
- 2.) SEE CONSTRUCTION STANDARDS E 107.6.5R  
FOR DETECTABLE WARNING PANELS
- 3.) ALL DETECTABLE WARNING PANELS SHALL BE  
FEDERAL YELLOW


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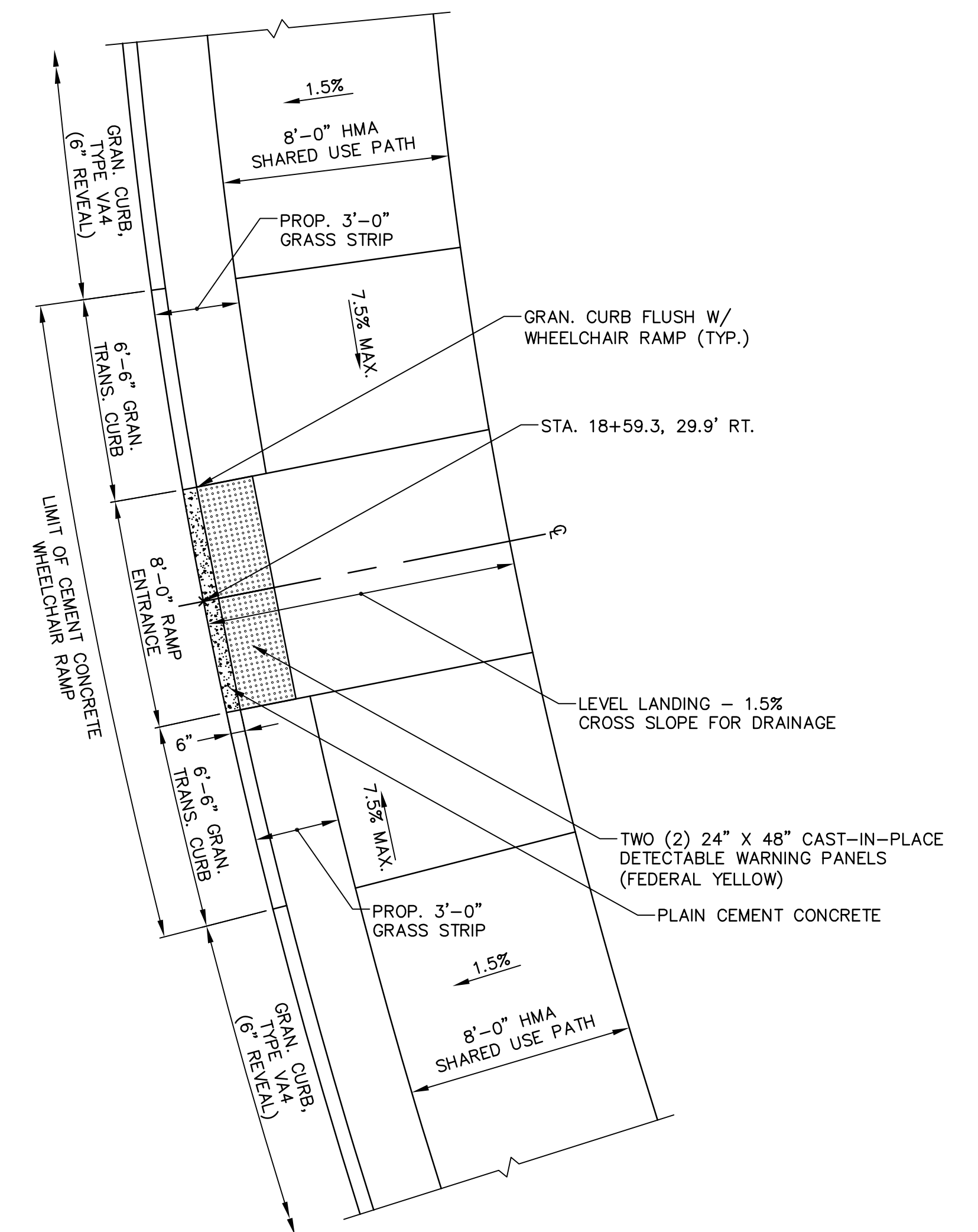
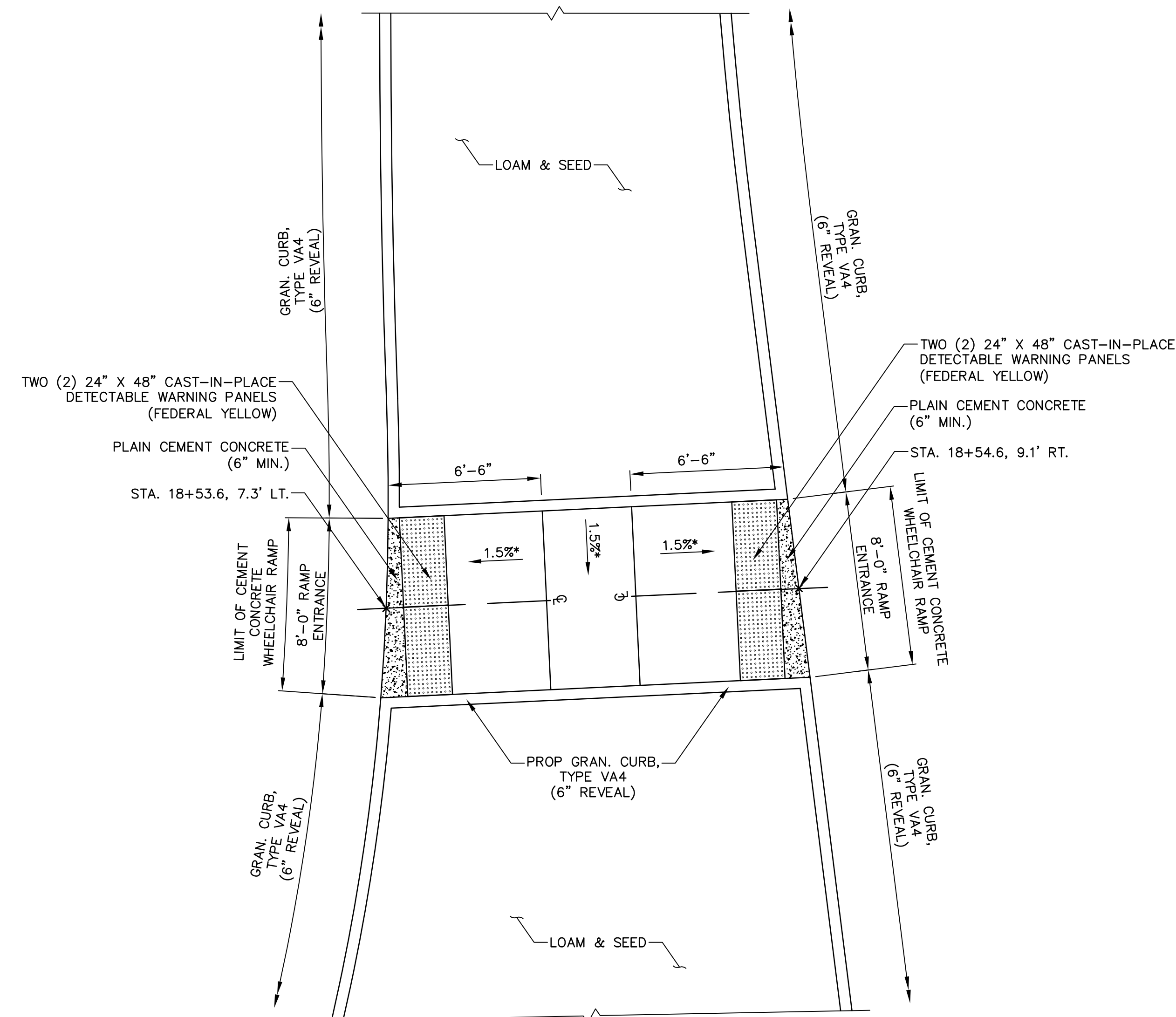
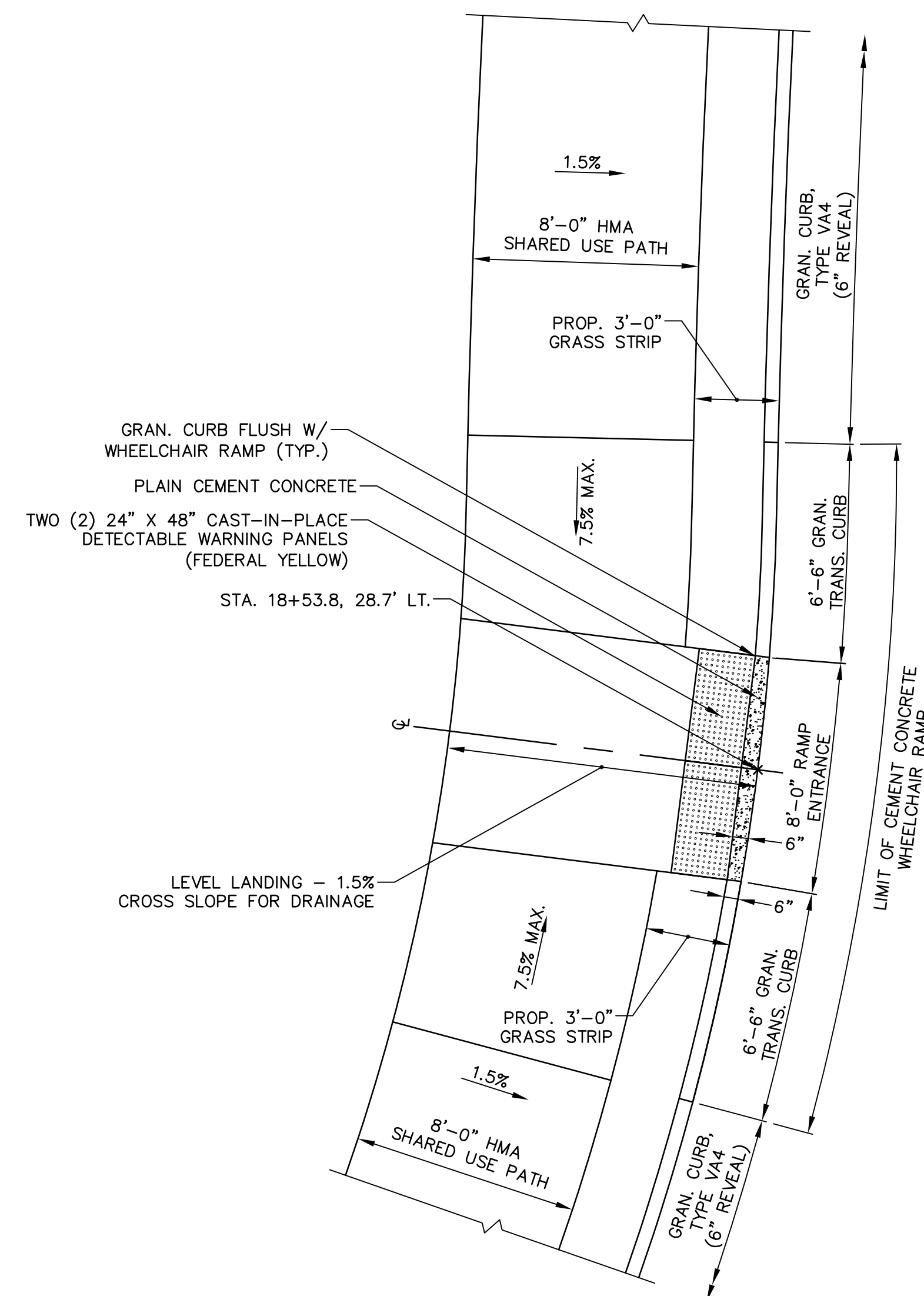


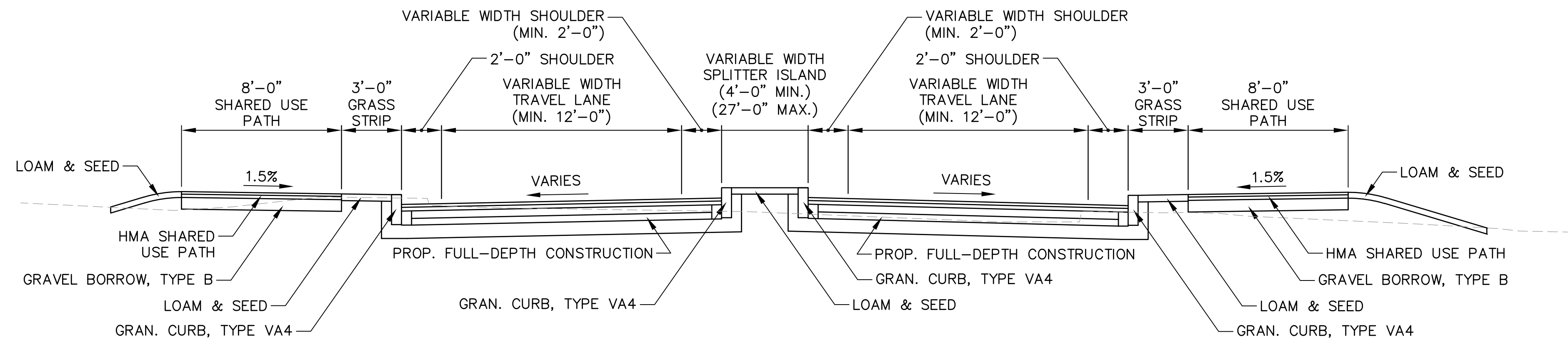
WHEELCHAIR RAMP NOTES:

- 1.) CONSTRUCTION TOLERANCE  $\pm 0.5\%$   
SEE CONSTRUCTION STANDARD E 107.2.1R
- 2.) SEE CONSTRUCTION STANDARDS E 107.6.5R  
FOR DETECTABLE WARNING PANELS
- 3.) ALL DETECTABLE WARNING PANELS SHALL BE  
FEDERAL YELLOW

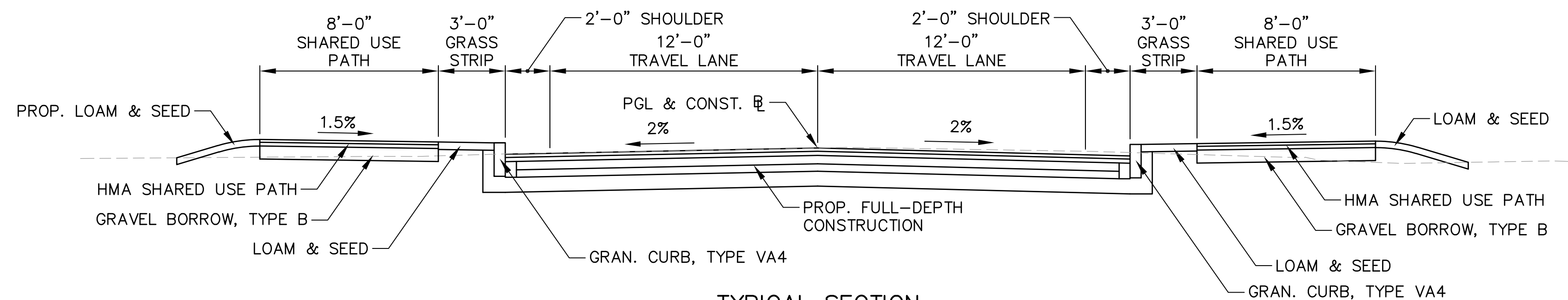


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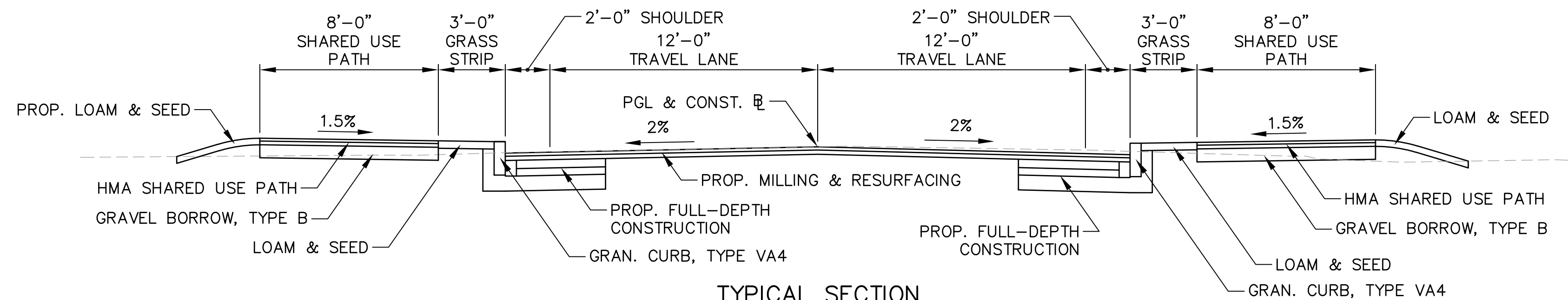




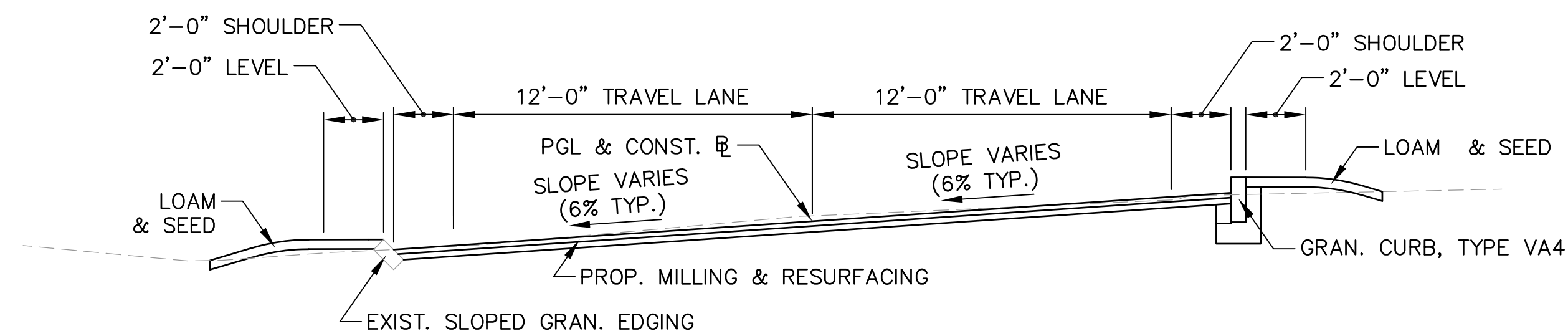
**TYPICAL SECTION**  
**DOUGLAS STREET (ROUTE 16) ROUNDABOUT APPROACHES**  
 STA. 7+17 TO STA. 8+47  
 STA. 9+91 TO STA. 11+11  
 STA. 16+00 TO STA. 16+80  
 STA. 18+18 TO STA. 20+45  
 NOT TO SCALE



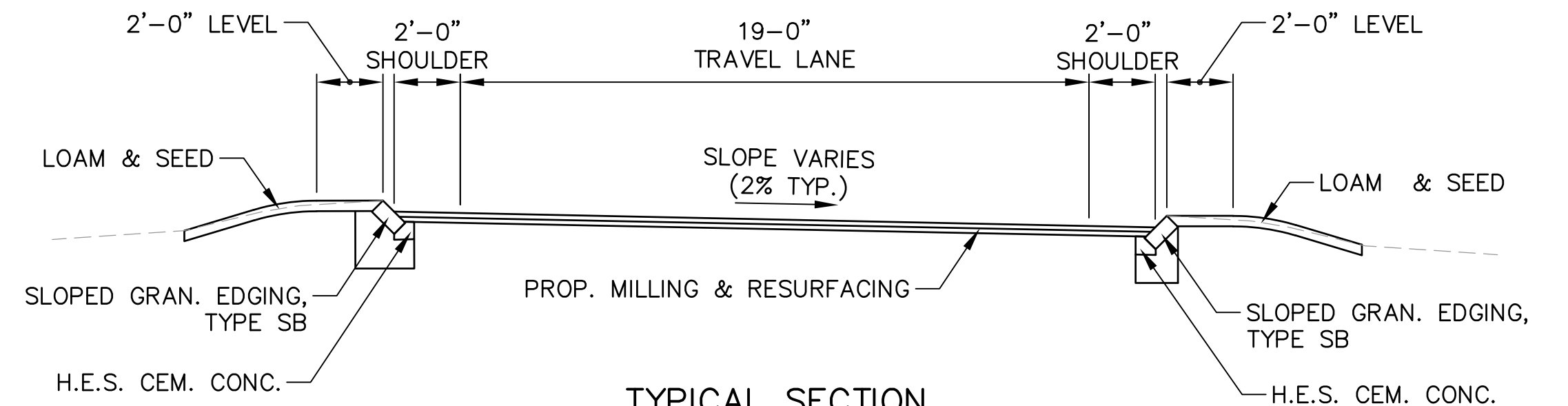
**TYPICAL SECTION**  
**DOUGLAS STREET (ROUTE 16)**  
**STA. 7+10 TO STA. 7+17**  
 NOT TO SCALE



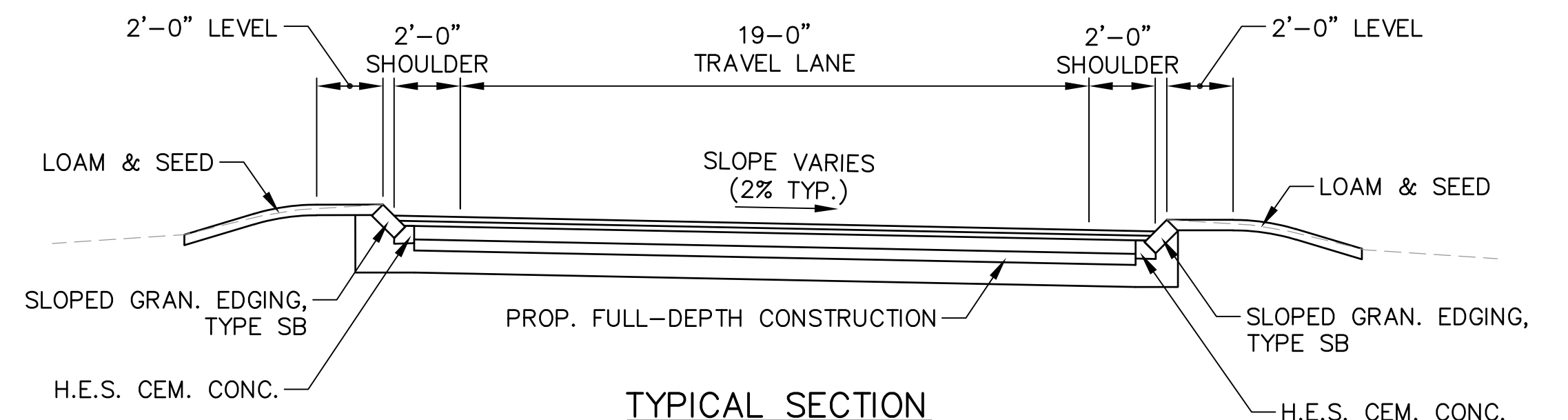
**TYPICAL SECTION**  
**DOUGLAS STREET (ROUTE 16)**  
**STA. 4+00 TO STA. 7+10**  
 NOT TO SCALE



**TYPICAL SECTION**  
**DOUGLAS STREET (ROUTE 16)**  
**FULL BANK SUPERELEVATION RIGHT (e=0.06±)**  
**STA. 3+00 TO STA. 4+00**  
 NOT TO SCALE

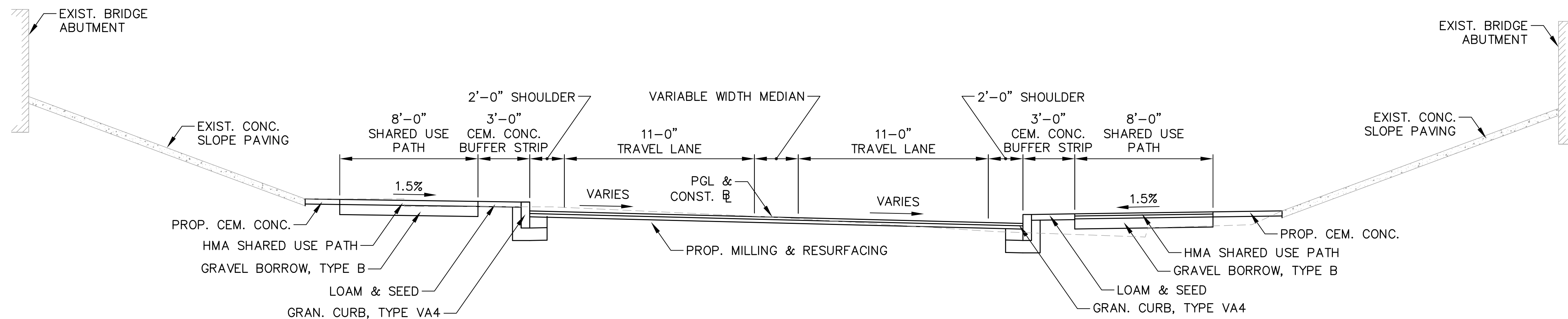


**TYPICAL SECTION**  
**ROUTE 146 ON-RAMP/OFF-RAMPS**  
 STA. 5+70 TO STA. 7+10  
 STA. 6+50 TO STA. 7+15  
 STA. 5+70 TO STA. 6+50  
 STA. 6+80 TO STA. 7+50  
 NOT TO SCALE

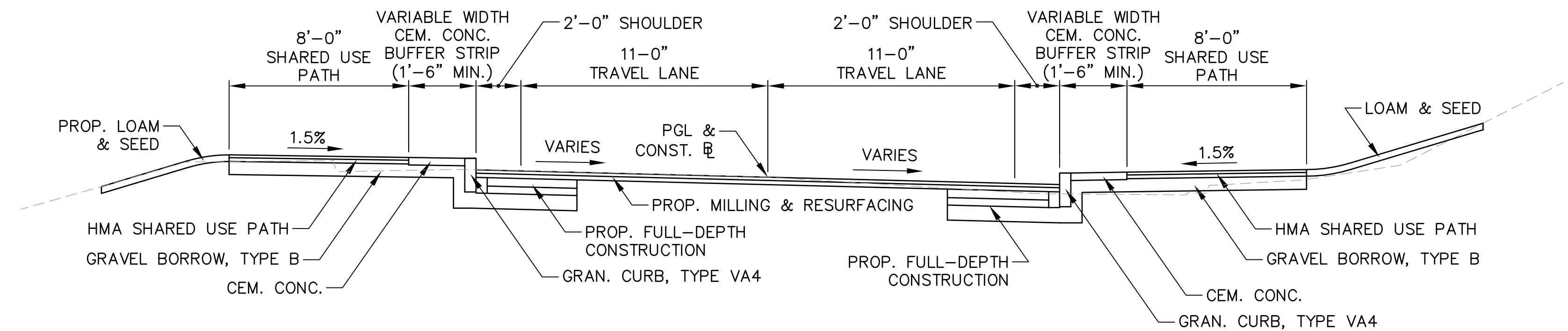


**TYPICAL SECTION**  
**ROUTE 146 ON-RAMP/OFF-RAMPS**  
 STA. 3+98 TO STA. 5+70  
 STA. 4+10 TO STA. 6+50  
 STA. 3+68 TO STA. 5+70  
 STA. 3+95 TO STA. 6+80  
 NOT TO SCALE

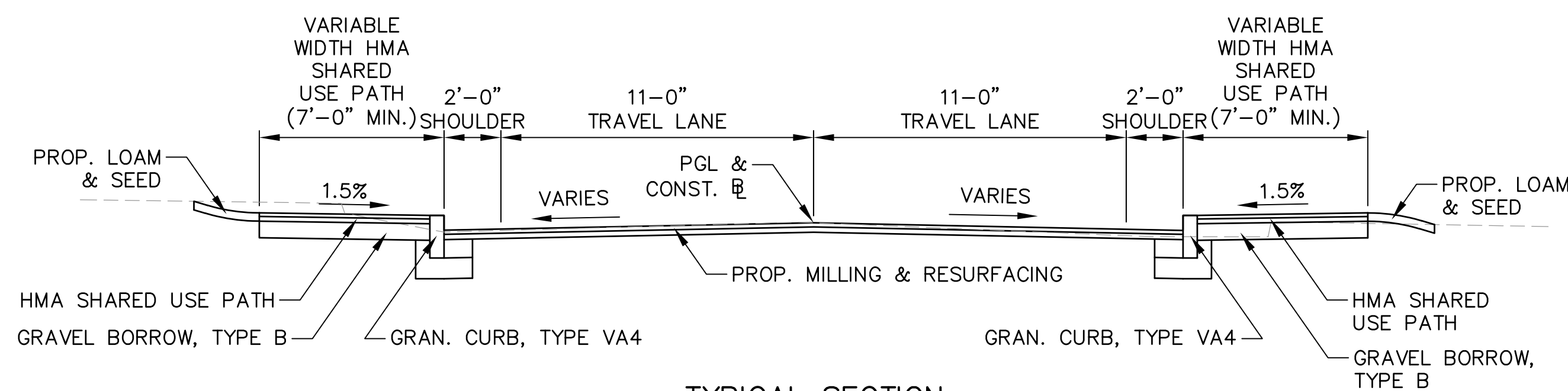
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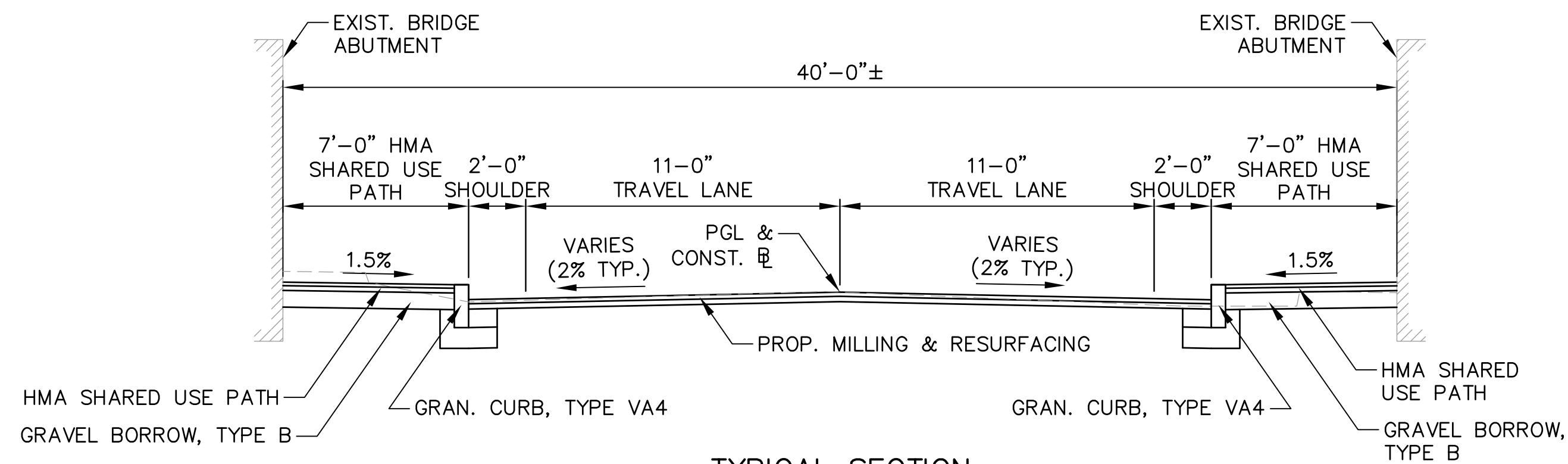
TYPICAL SECTION  
DOUGLAS STREET (ROUTE 16) AT ROUTE 146 SOUTH OVERPASS  
STA. 11+91 TO STA. 12+49  
NOT TO SCALE



TYPICAL SECTION  
DOUGLAS STREET (ROUTE 16)  
STA. 12+49 TO STA. 13+17  
NOT TO SCALE

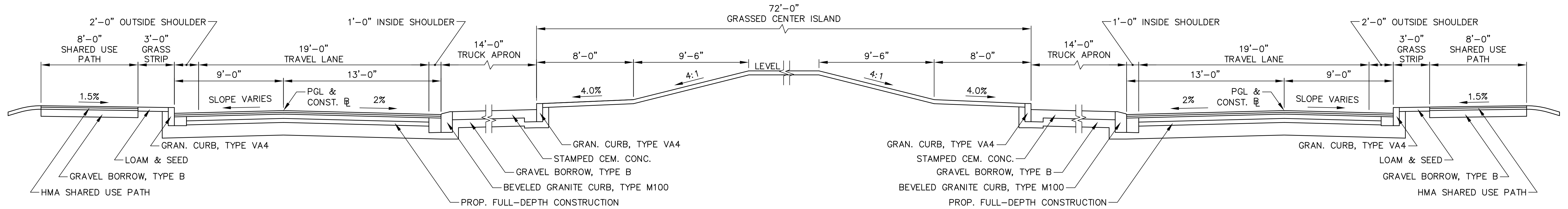


TYPICAL SECTION  
DOUGLAS STREET (ROUTE 16)  
STA. 13+17 TO STA. 13+94  
NOT TO SCALE

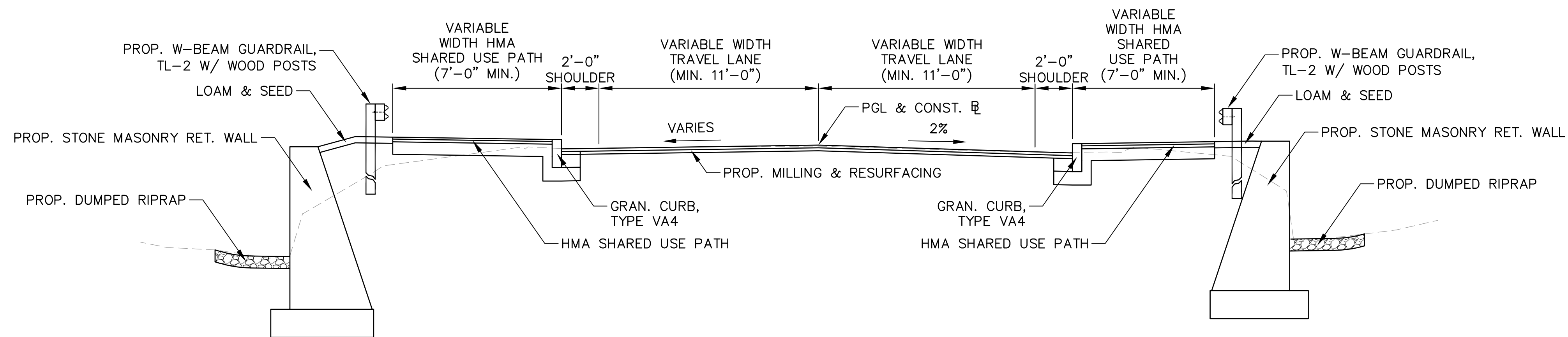


TYPICAL SECTION  
DOUGLAS STREET (ROUTE 16) AT ROUTE 146 NORTH OVERPASS  
STA. 13+94 TO STA. 14+41  
NOT TO SCALE

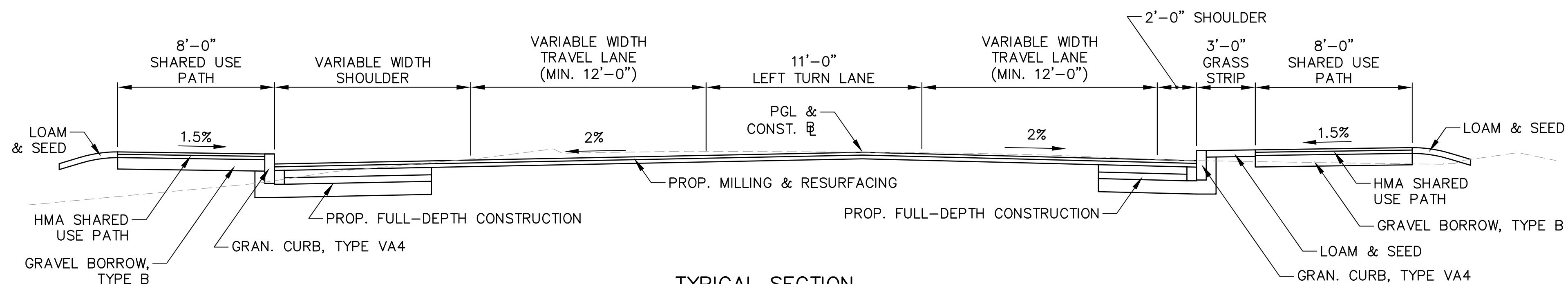
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**TYPICAL SECTION**  
**DOUGLAS STREET (ROUTE 16) ROUNDABOUTS**  
**STA. 9+19 & STA. 17+52**  
 NOT TO SCALE

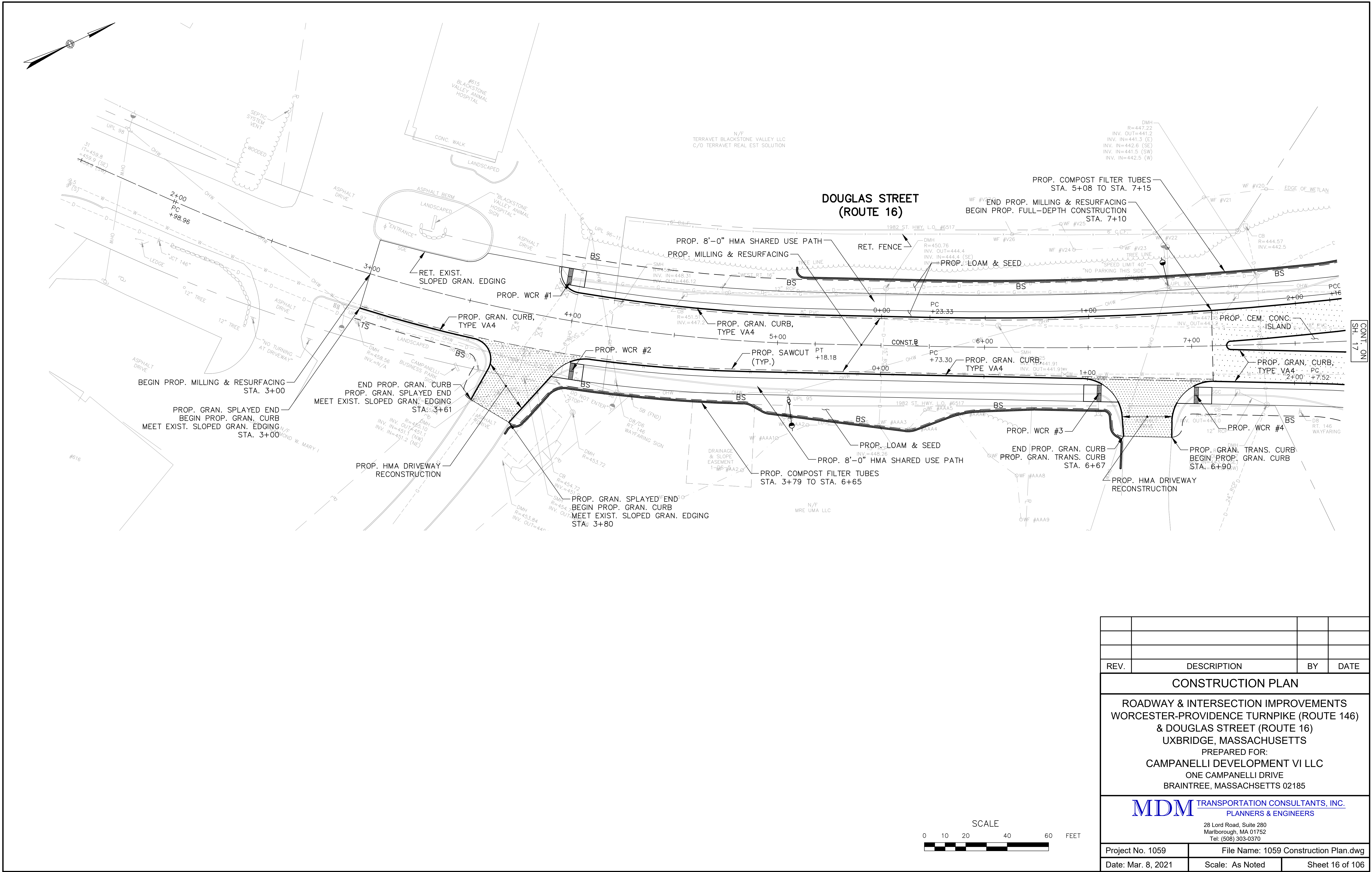


**TYPICAL SECTION**  
**DOUGLAS STREET (ROUTE 16)**  
**STA. 14+90 TO STA. 15+15**  
 NOT TO SCALE

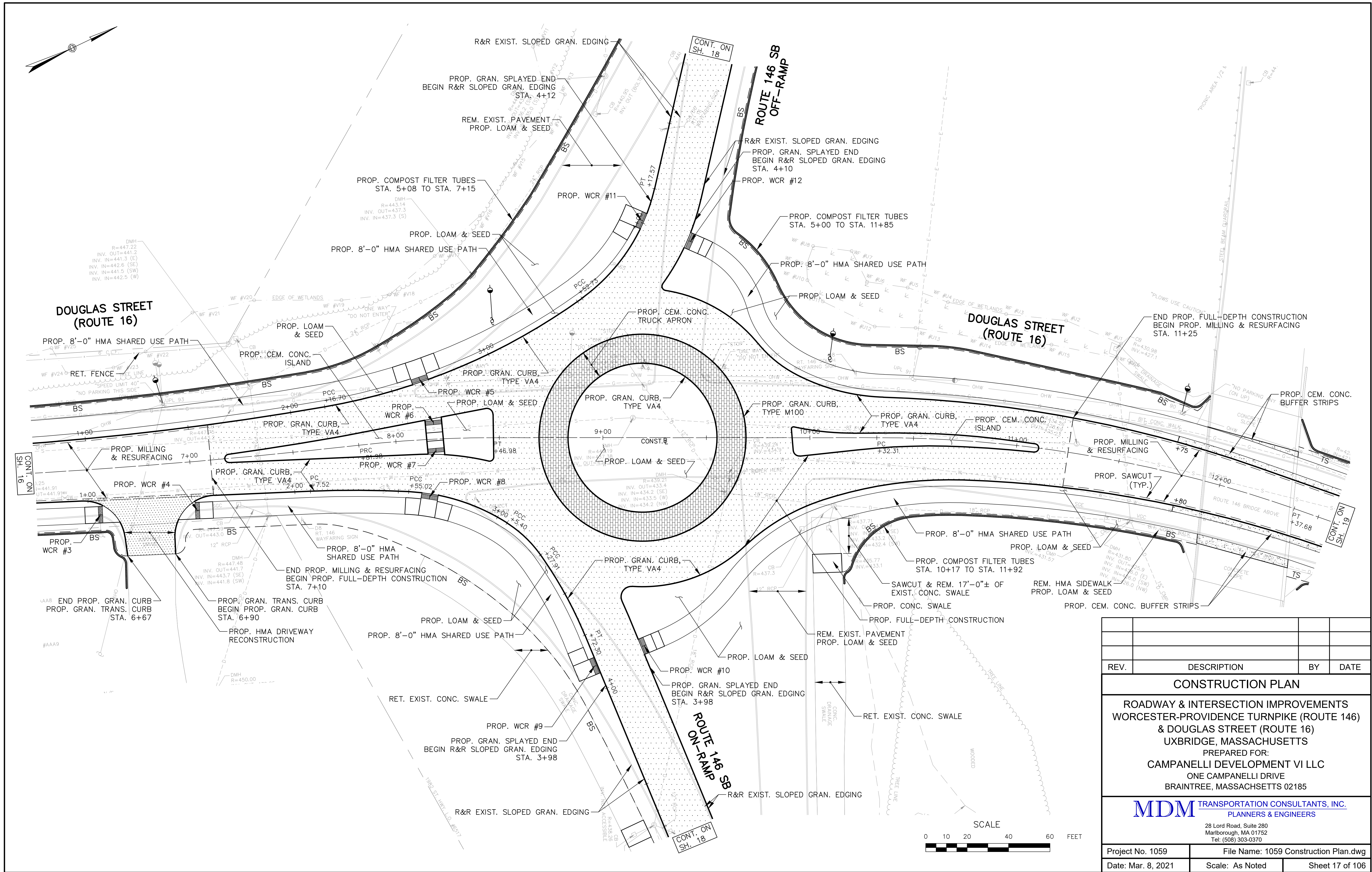


**TYPICAL SECTION**  
**DOUGLAS STREET (ROUTE 16)**  
**STA. 20+45 TO STA. 22+98**  
 NOT TO SCALE

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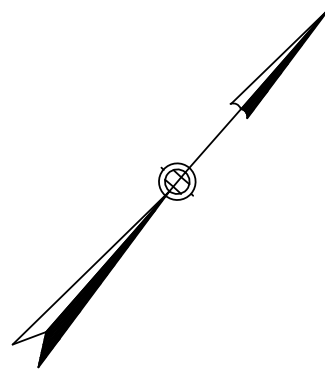


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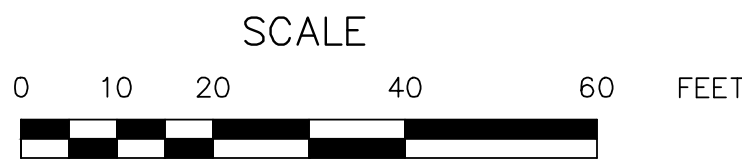
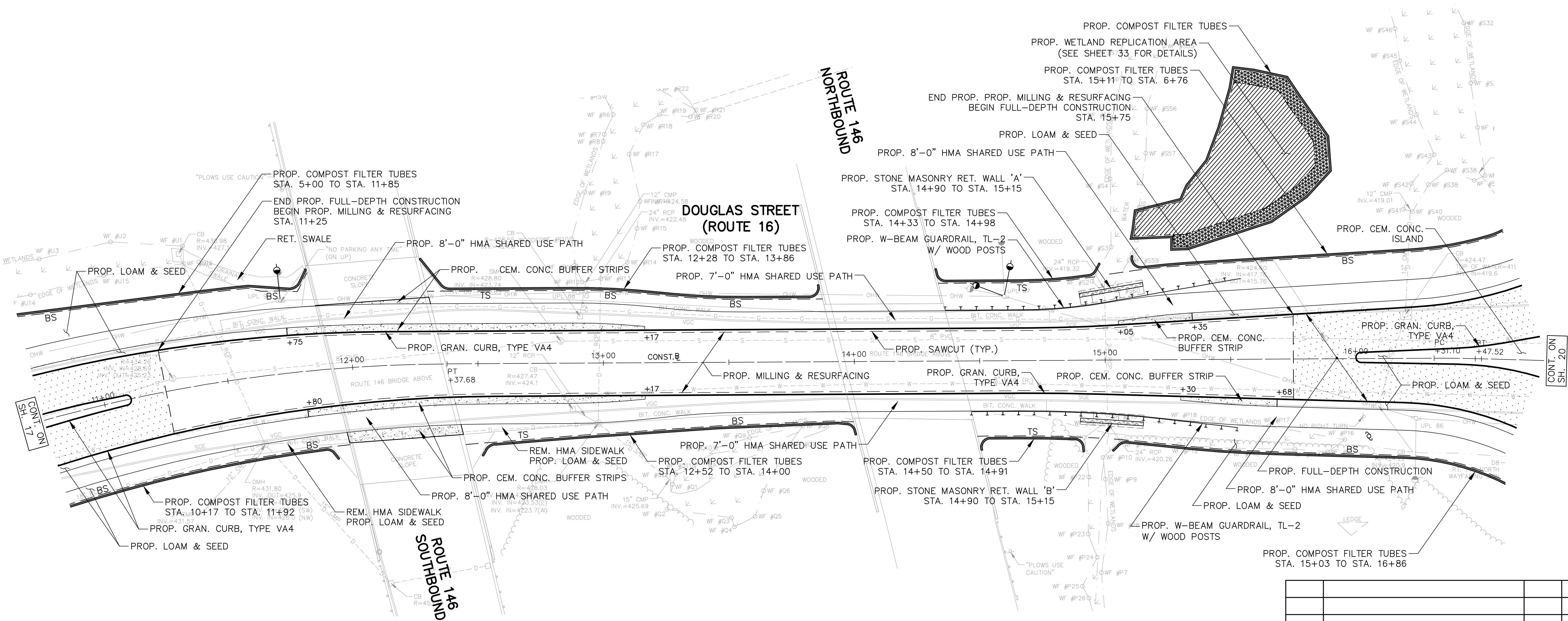
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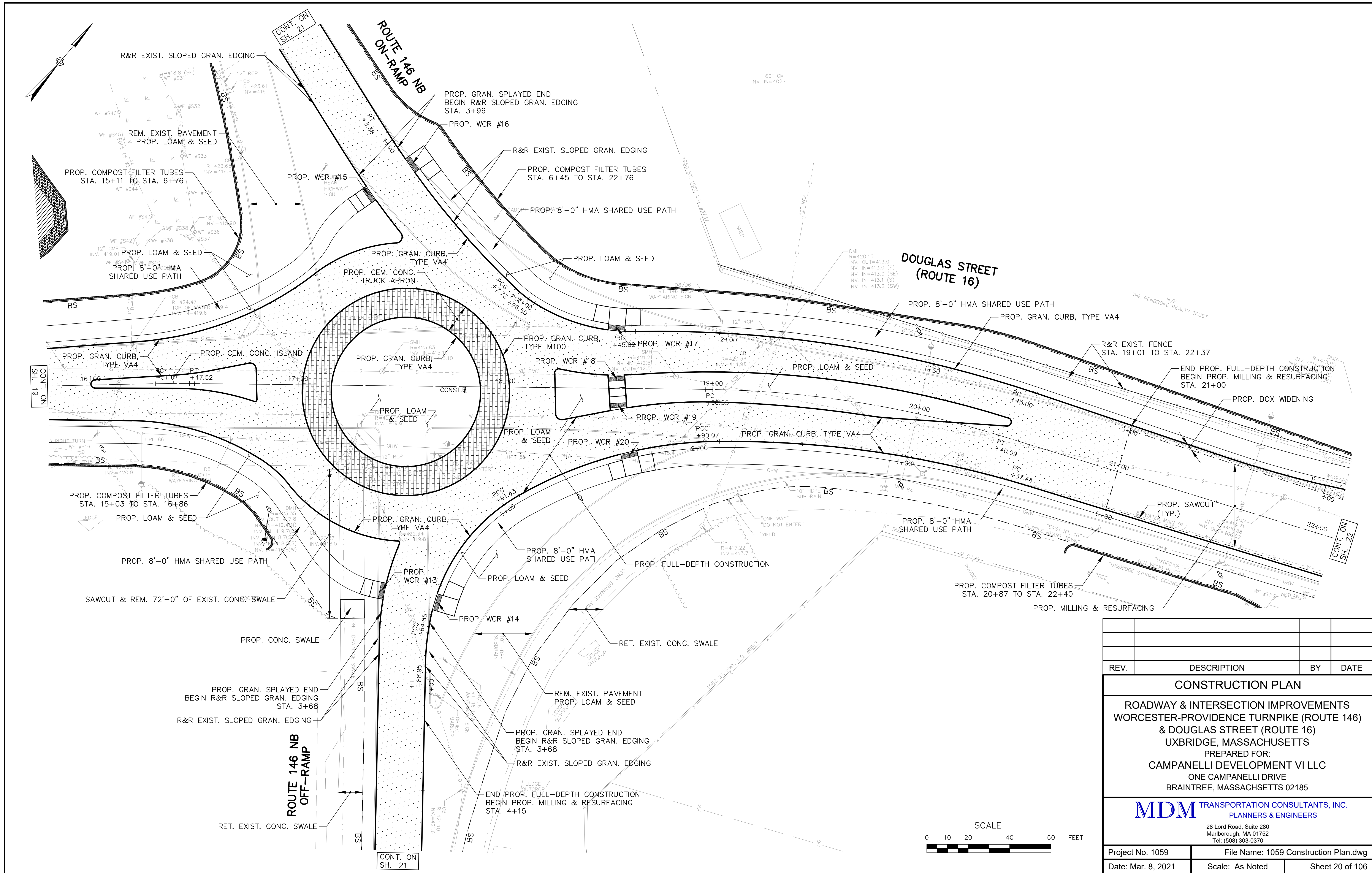


HIGHWAY GUARD DETAILS

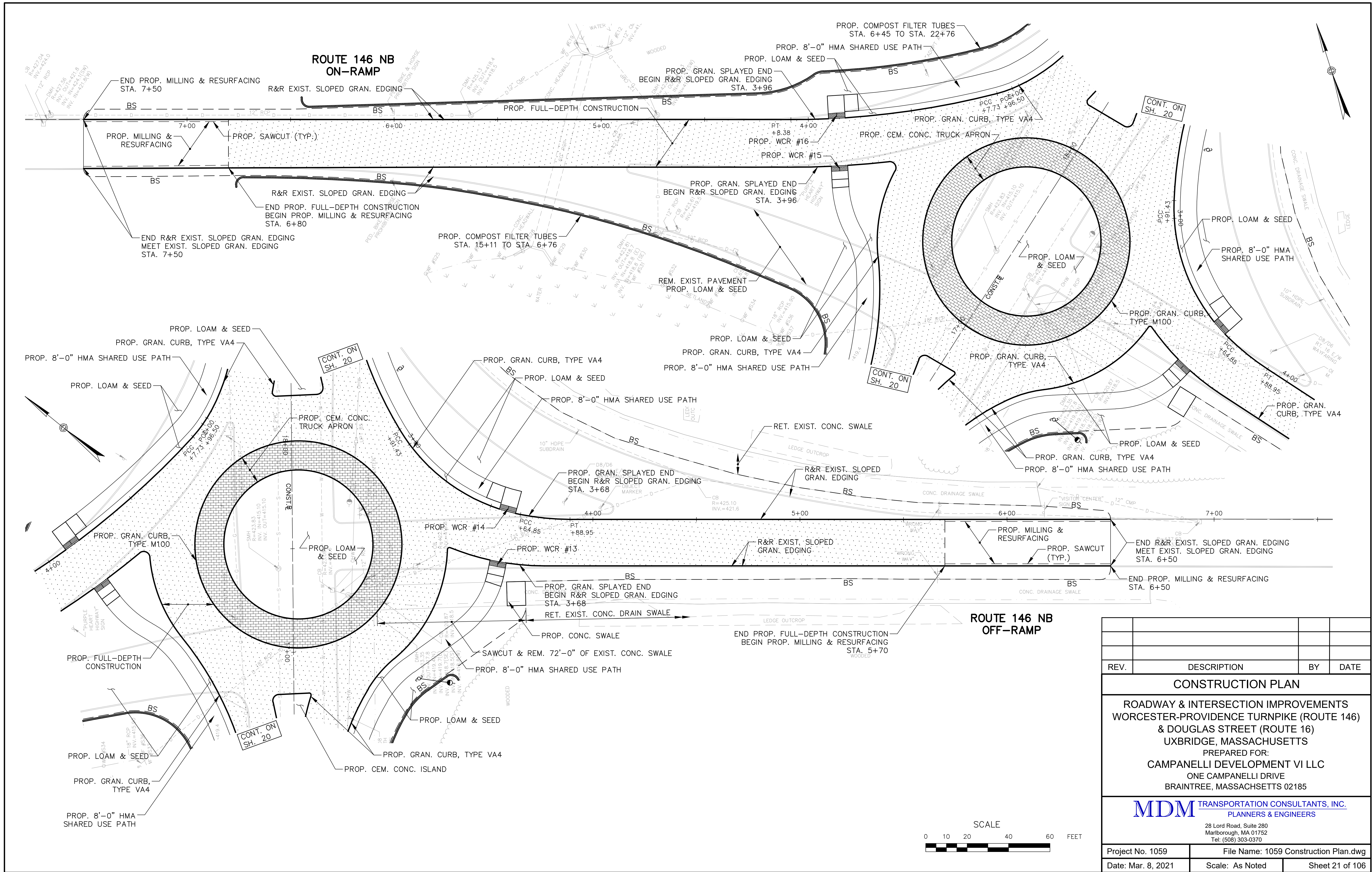
TERMINAL CONNECTOR AT BRIDGE ABUTMENT STA. 14+36 LT.  
W-BEAM GUARDRAIL STA. 14+36 LT. TO STA. 15+29 LT.  
TANGENT END SECTION STA. 15+54 LT.  
TERMINAL CONNECTOR AT BRIDGE ABUTMENT STA. 14+47 RT.  
W-BEAM GUARDRAIL STA. 14+47 RT. TO STA. 15+29 RT.  
TANGENT END SECTION STA. 15+54 RT.



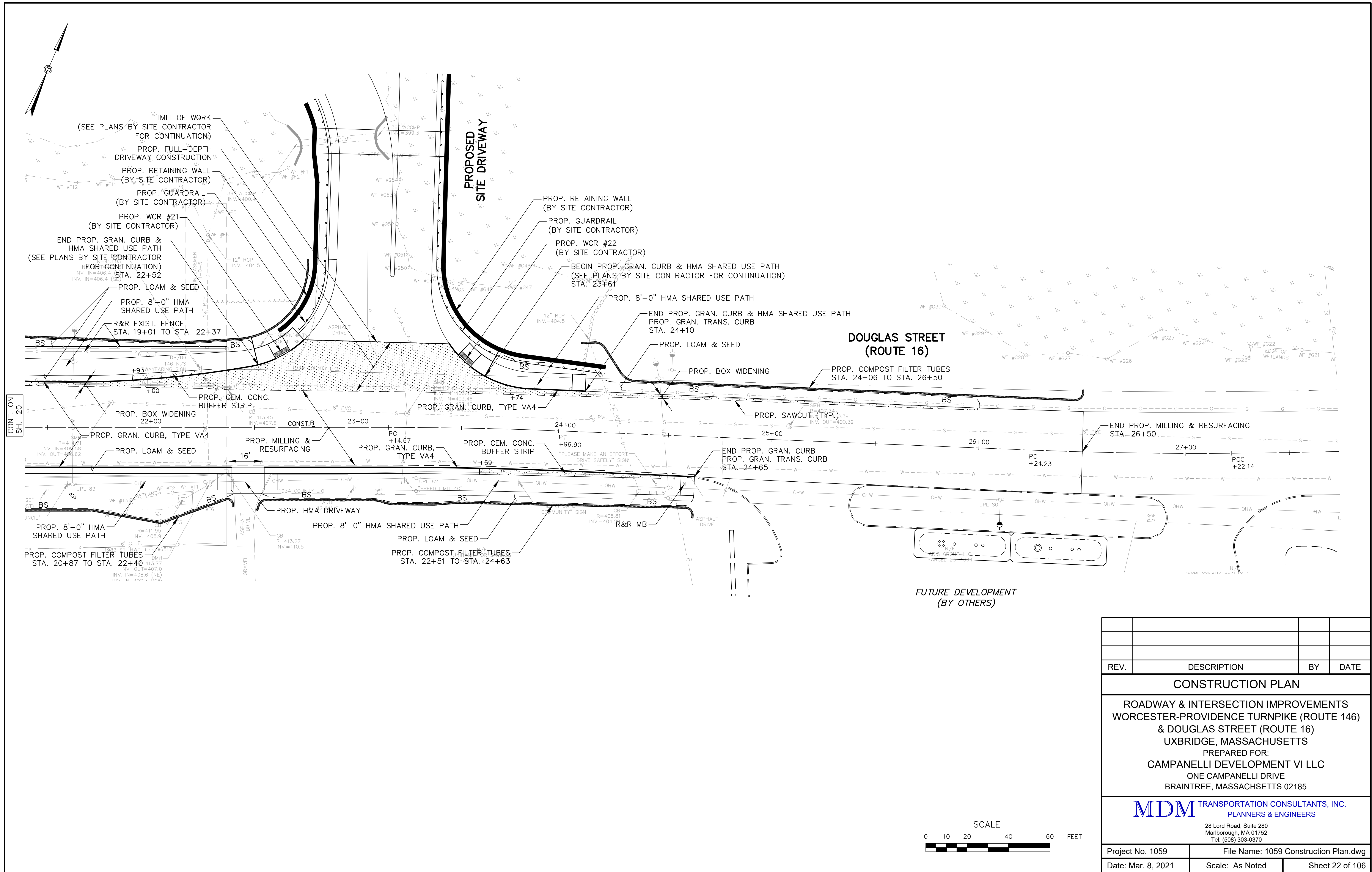
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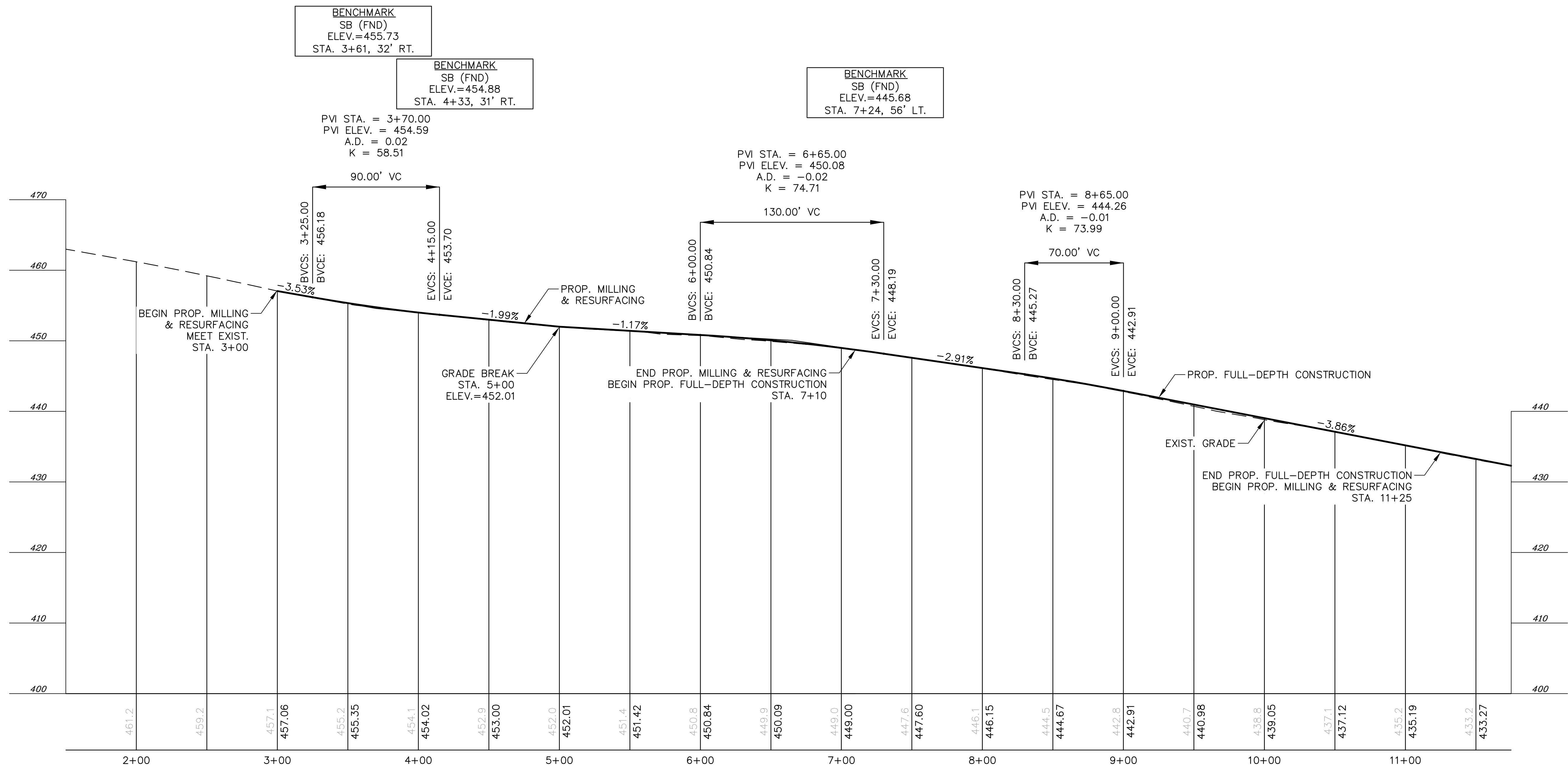
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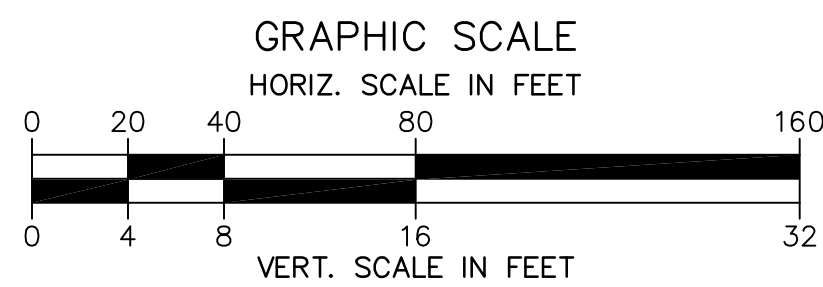
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Project No. 1059		File Name: 1059 Construction Plan.dwg	
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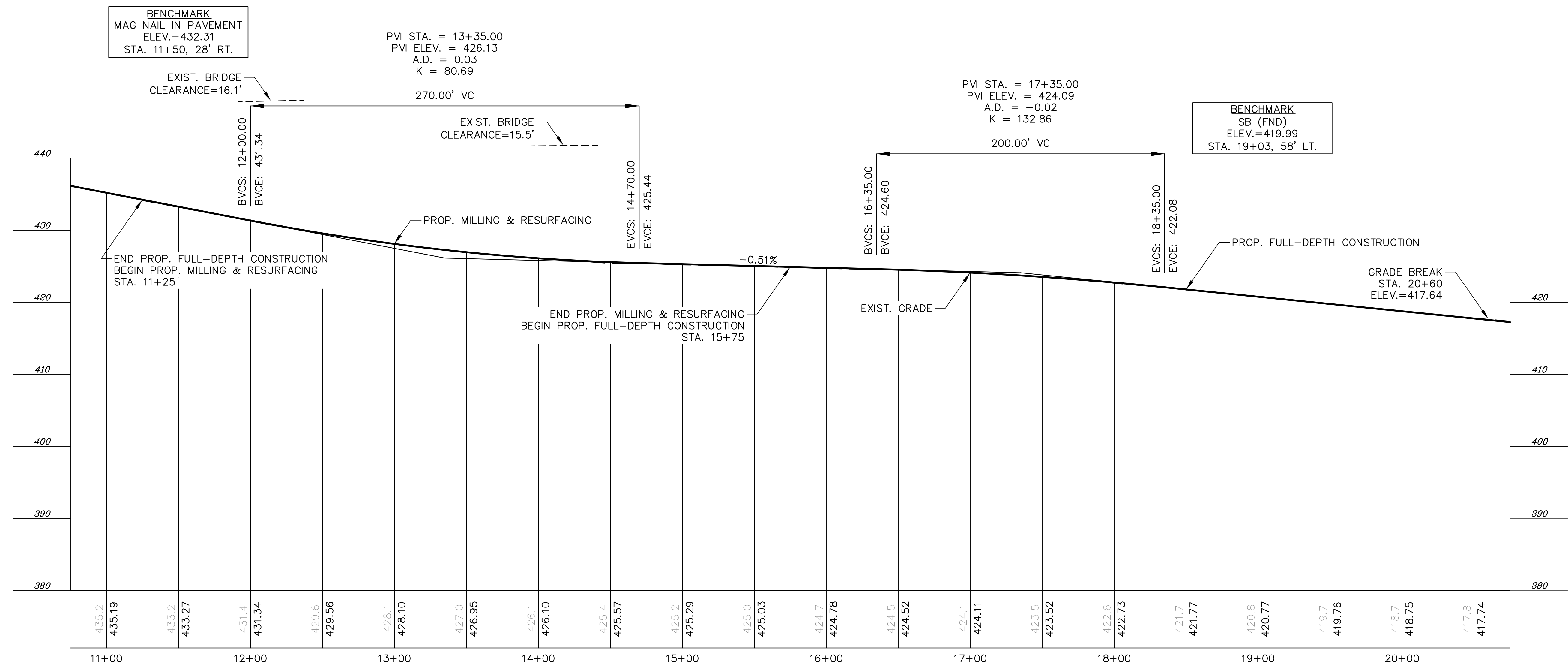
REV.	DESCRIPTION	BY	DATE
CONSTRUCTION PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Construction Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 22 of 106



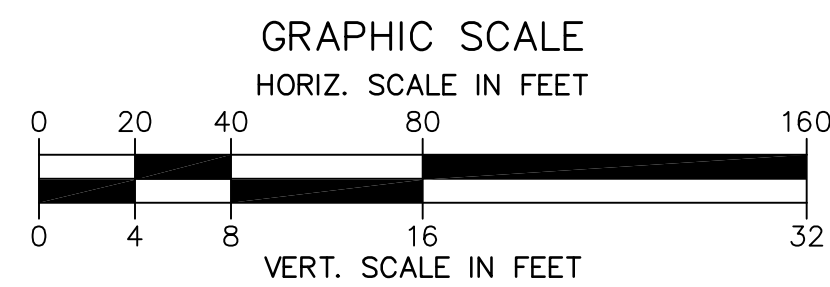
DOUGLAS STREET  
(ROUTE 16)



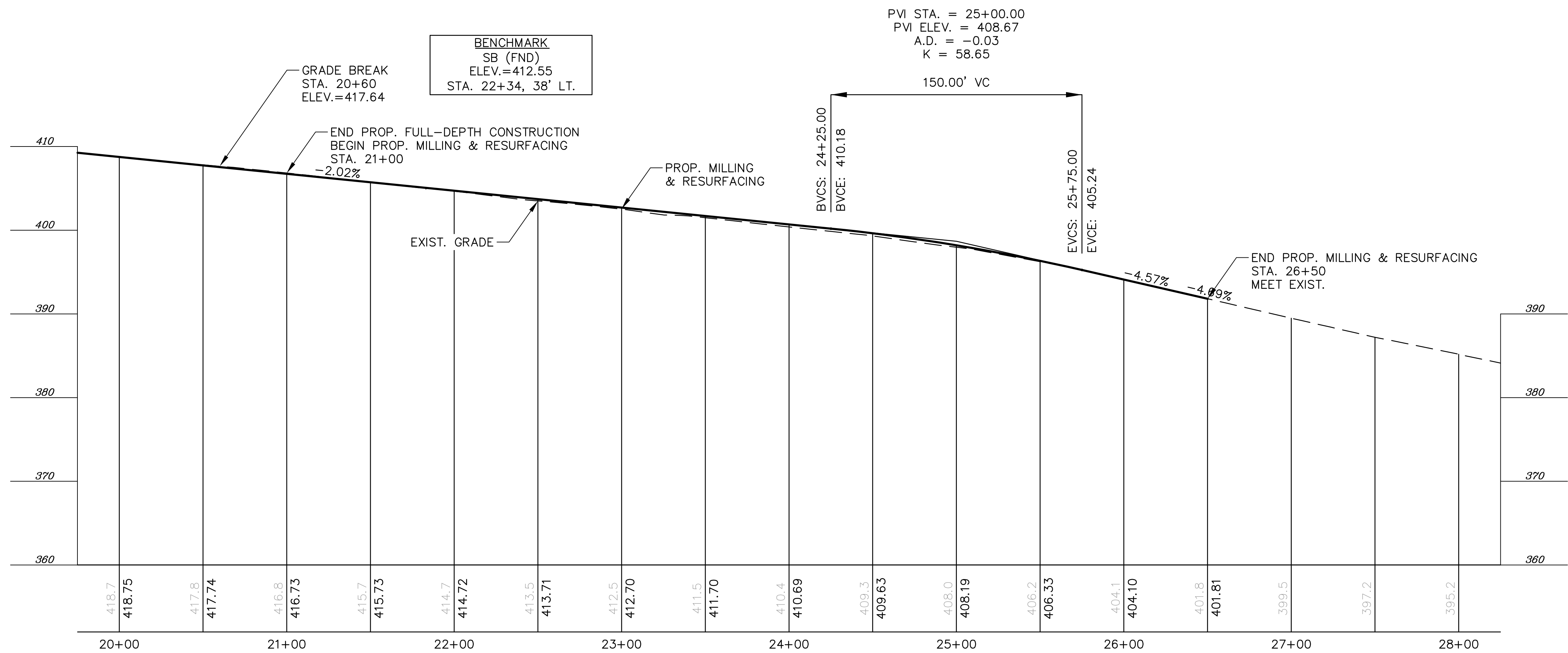
REV.	DESCRIPTION	BY	DATE
CONSTRUCTION PROFILE			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Construction Profile.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 23 of 106



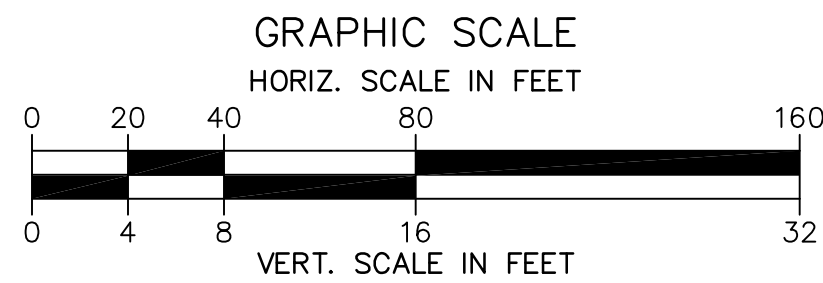
DOUGLAS STREET  
(ROUTE 16)



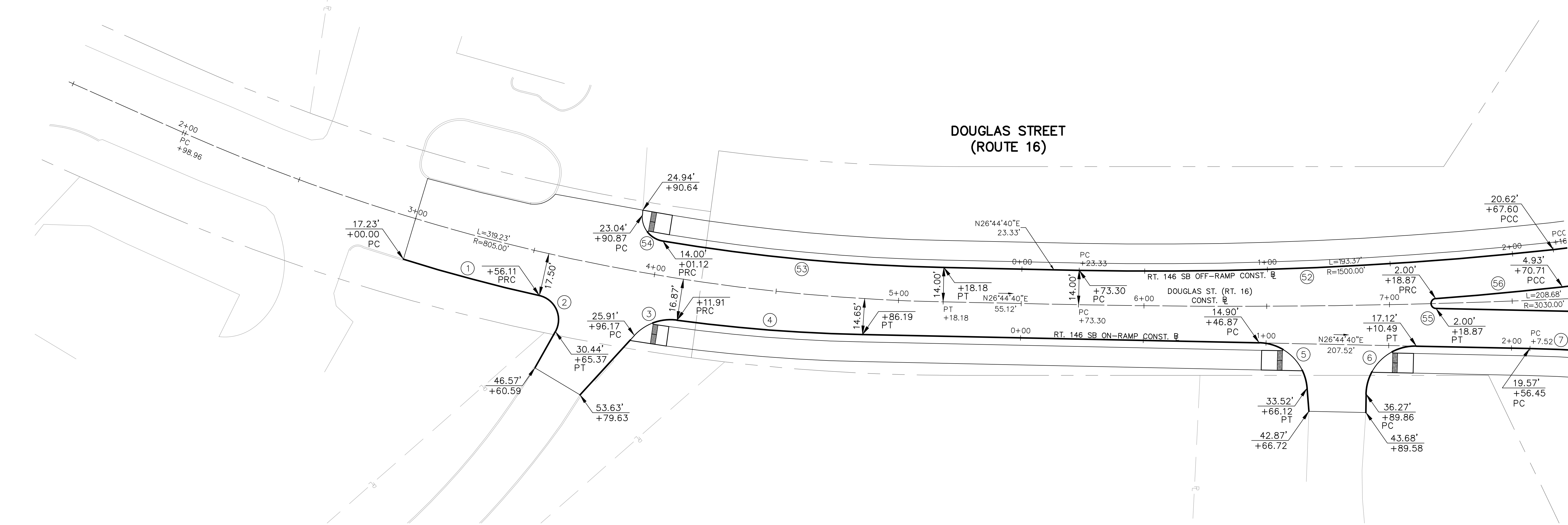
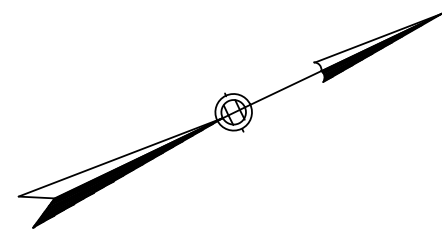
REV.	DESCRIPTION	BY	DATE
CONSTRUCTION PROFILE			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Construction Profile.dwg	
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DOUGLAS STREET  
(ROUTE 16)



REV.	DESCRIPTION	BY	DATE
CONSTRUCTION PROFILE			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
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DOUGLAS STREET (ROUTE 16) CONSTRUCTION					
	STATION			NORTHING	EASTING
BEGIN	0+00.00			610294.7272	2848467.7483
		N49°27'55"E	198.96'		
PC	1+98.96			610445.9381	2848597.0534
		R=805.00'	L=319.23'		
PT	5+18.18			610641.6446	2848846.6039
		N26°44'40"E	55.12'		
PC	5+73.30			610666.4493	2848895.8275
		R=3030.00'	L=208.68'		
PRC	7+81.98			610753.8689	2849085.2692

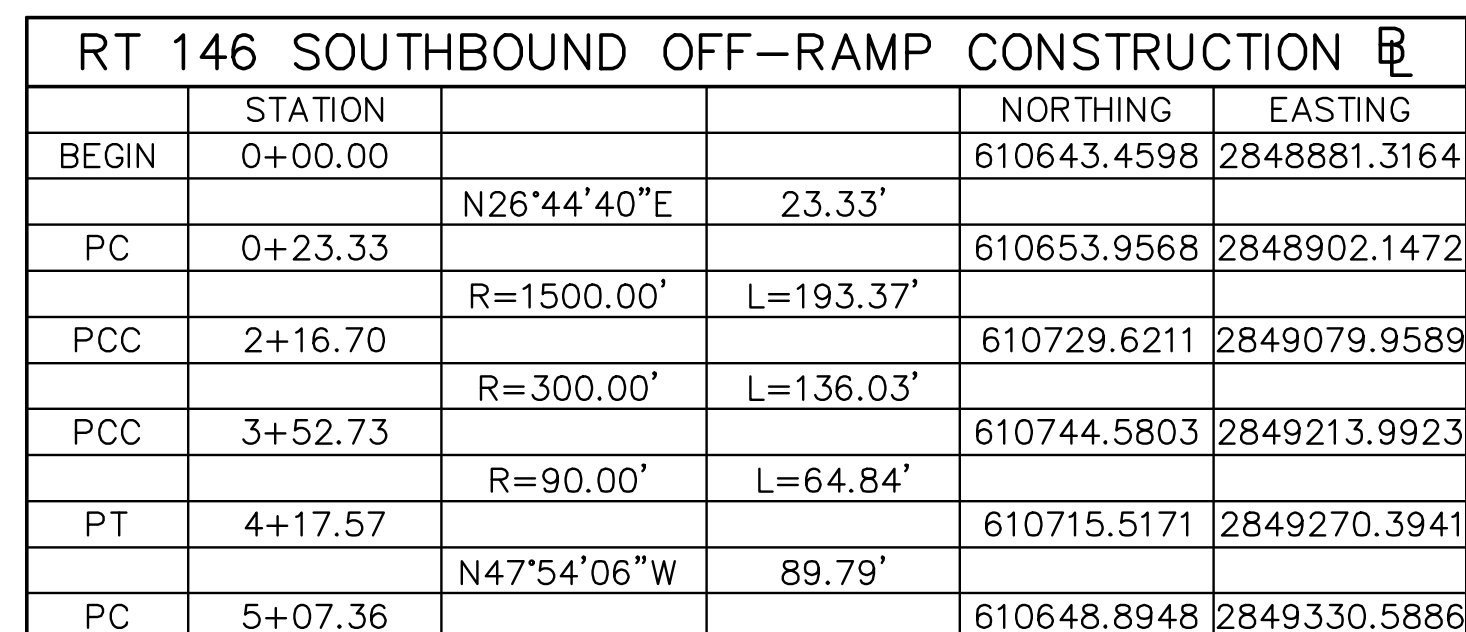
RT 146 SOUTHBOUND OFF-RAMP CONSTRUCTION					
	STATION			NORTHING	EASTING
BEGIN	0+00.00			610643.4598	2848881.3164
		N26°44'40"E	23.33'		
PC	0+23.33			610653.9568	2848902.1472
		R=1500.00'	L=193.37'		
PCC	2+16.70			610729.6211	2849079.9589
		R=300.00'	L=136.03'		
PCC	3+52.73			610744.5803	2849213.9923

RT 146 SOUTHBOUND ON-RAMP CONSTRUCTION					
	STATION			NORTHING	EASTING
BEGIN	0+00.00			610668.4644	2848868.7160
		N26°44'40"E	207.52'		
PC	2+07.52			610761.8491	2849054.0329
		R=500.00'	L=47.51'		
PCC	2+55.02			610785.2087	2849095.3777

CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
①	670.00'	56.71'	4°51'00"	28.37'
②	10.00'	18.66'	106°55'32"	13.50'
③	20.00'	19.25'	55°09'09"	10.45'
④	670.00'	75.77'	6°28'48"	37.93'
⑤	20.00'	29.49'	84°29'15"	18.16'
⑥	20.00'	31.42'	90°00'00"	20.00'
⑦	500.00'	47.51'	5°26'37"	23.77'
⑫	1500.00'	193.37'	7°23'11"	96.82'
⑬	791.00'	115.03'	8°19'56"	57.62'
⑭	10.00'	14.73'	84°22'39"	9.06'
⑮	2.00'	6.09'	174°29'41"	41.60'
⑯	1515.50'	51.86'	1°57'39"	25.93'

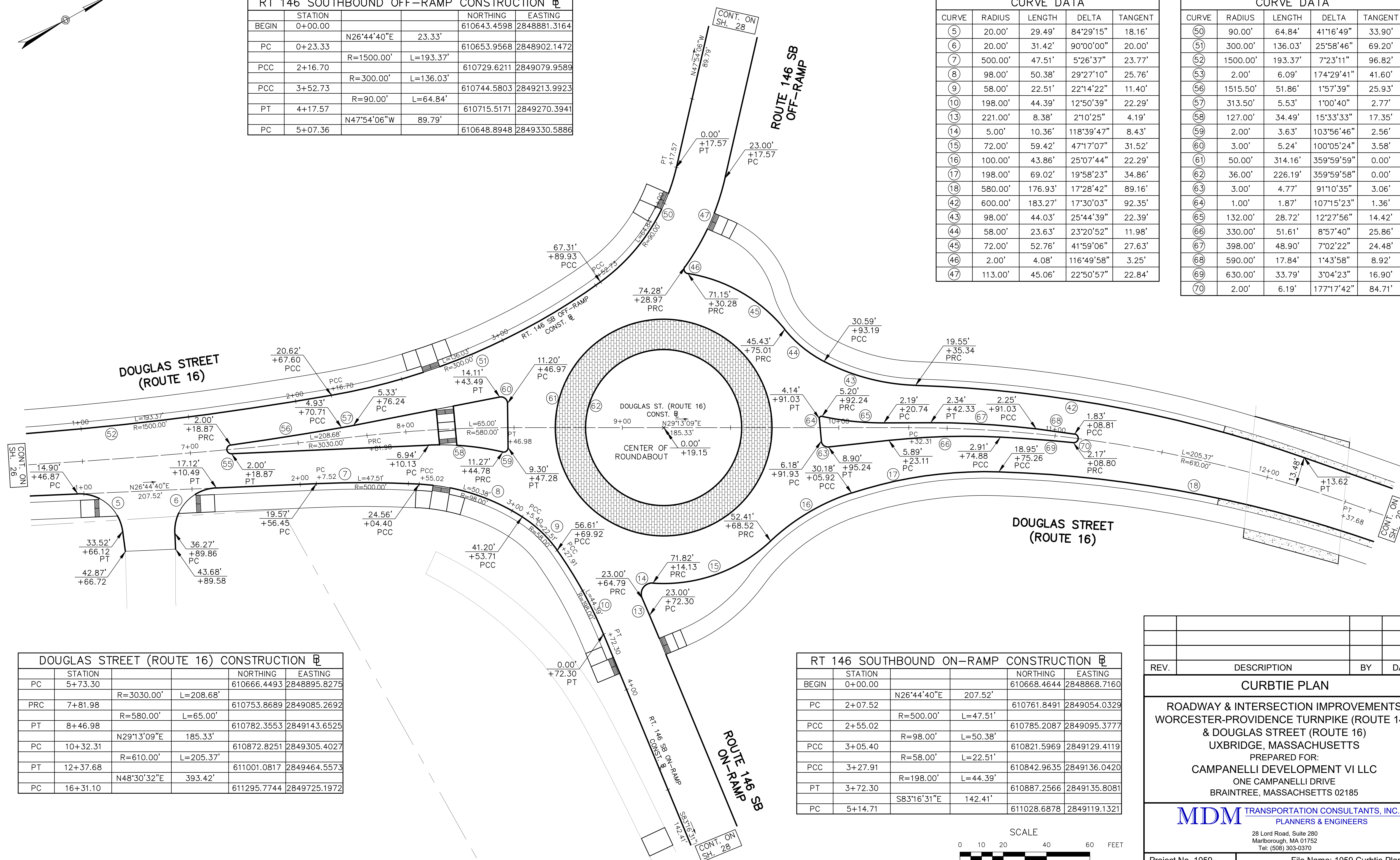


REV.	DESCRIPTION	BY	DATE
CURBTIE PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Curbtie Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 26 of 106



CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
⑤	20.00'	29.49'	84°29'15"	18.16'
⑥	20.00'	31.42'	90°00'00"	20.00'
⑦	500.00'	47.51'	5°26'37"	23.77'
⑧	98.00'	50.38'	29°27'10"	25.76'
⑨	58.00'	22.51'	22°14'22"	11.40'
⑩	198.00'	44.39'	12°50'39"	22.29'
⑬	221.00'	8.38'	2°10'25"	4.19'
⑭	5.00'	10.36'	118°39'47"	8.43'
⑮	72.00'	59.42'	47°17'07"	31.52'
⑯	100.00'	43.86'	25°07'44"	22.29'
⑰	198.00'	69.02'	19°58'23"	34.86'
⑱	580.00'	176.93'	17°28'42"	89.16'
④②	600.00'	183.27'	17°30'03"	92.35'
④③	98.00'	44.03'	25°44'39"	22.39'
④④	58.00'	23.63'	23°20'52"	11.98'
④⑤	72.00'	52.76'	41°59'06"	27.63'
④⑥	2.00'	4.08'	116°49'58"	3.25'
④⑦	113.00'	45.06'	22°50'57"	22.84'

CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
(50)	90.00'	64.84'	41°16'49"	33.90'
(51)	300.00'	136.03'	25°58'46"	69.20'
(52)	1500.00'	193.37'	7°23'11"	96.82'
(53)	2.00'	6.09'	174°29'41"	41.60'
(56)	1515.50'	51.86'	1°57'39"	25.93'
(57)	313.50'	5.53'	1°00'40"	2.77'
(58)	127.00'	34.49'	15°33'33"	17.35'
(59)	2.00'	3.63'	103°56'46"	2.56'
(60)	3.00'	5.24'	100°05'24"	3.58'
(61)	50.00'	314.16'	359°59'59"	0.00'
(62)	36.00'	226.19'	359°59'58"	0.00'
(63)	3.00'	4.77'	91°10'35"	3.06'
(64)	1.00'	1.87'	107°15'23"	1.36'
(65)	132.00'	28.72'	12°27'56"	14.42'
(66)	330.00'	51.61'	8°57'40"	25.86'
(67)	398.00'	48.90'	7°02'22"	24.48'
(68)	590.00'	17.84'	1°43'58"	8.92'
(69)	630.00'	33.79'	3°04'23"	16.90'
(70)	2.00'	6.19'	177°17'42"	84.71'



DOUGLAS STREET (ROUTE 16) CONSTRUCTION					
	STATION			NORTHING	EASTING
PC	5+73.30			610666.4493	2848895.8275
		R=3030.00'	L=208.68'		
PRC	7+81.98			610753.8689	2849085.2692
		R=580.00'	L=65.00'		
PT	8+46.98			610782.3553	2849143.6525
		N29°13'09"E	185.33'		
PC	10+32.31			610872.8251	2849305.4027
		R=610.00'	L=205.37'		
PT	12+37.68			611001.0817	2849464.5573
		N48°30'32"E	393.42'		
PC	16+31.10			611295.7744	2849725.1972

RT 146 SOUTHBOUND ON-RAMP CONSTRUCTION					
	STATION			NORTHING	EASTING
BEGIN	0+00.00			610668.4644	2848868.7160
		N26°44'40"E	207.52'		
PC	2+07.52			610761.8491	2849054.0329
		R=500.00'	L=47.51'		
PCC	2+55.02			610785.2087	2849095.3777
		R=98.00'	L=50.38'		
PCC	3+05.40			610821.5969	2849129.4119
		R=58.00'	L=22.51'		
PCC	3+27.91			610842.9635	2849136.0420
		R=198.00'	L=44.39'		
PT	3+72.30			610887.2566	2849135.8087
		S83°16'31"E	142.41'		
PC	5+14.71			611028.6878	2849119.1321

REV.	DESCRIPTION	BY	DATE
<p align="center"><b>CURBTIE PLAN</b></p> <p align="center"><b>ROADWAY &amp; INTERSECTION IMPROVEMENTS</b>  <b>WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146)</b>  <b>&amp; DOUGLAS STREET (ROUTE 16)</b>  <b>UXBRIDGE, MASSACHUSETTS</b></p> <p align="center">PREPARED FOR:  <b>CAMPANELLI DEVELOPMENT VI LLC</b>  <b>ONE CAMPANELLI DRIVE</b>  <b>BRAINTREE, MASSACHSETTS 02185</b></p>			
<p><b>MDM</b> <u>TRANSPORTATION CONSULTANTS, INC.</u>  <b>PLANNERS &amp; ENGINEERS</b></p> <p align="center">28 Lord Road, Suite 280          Marlborough, MA 01752          Tel: (508) 303-0370</p>			
Project No. 1059		File Name: 1059 Curbtie Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 27 of 106

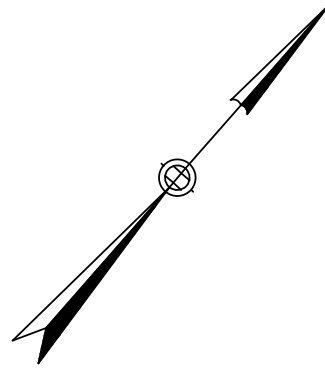
RT 146 SOUTHBOUND OFF-RAMP CONSTRUCTION					
	STATION			NORTHING	EASTING
PCC	2+16.70			610729.6211	2849079.9589
		R=300.00'	L=136.03'		
PCC	3+52.73			610744.5803	2849213.9923
		R=90.00'	L=64.84'		
PT	4+17.57			610715.5171	2849270.3941
		N47°54'06"W	89.79'		
PC	5+07.36			610648.8948	2849330.5886
		R=600.00'	L=87.63'		
PT	5+94.99			610588.3866	2849393.8679
		N39°32'01"W	255.01'		
END	8+50.00			610426.0658	2849590.5445

CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
(11)	520.00'	174.78'	19°15'27"	88.22'
(12)	536.00'	180.86'	19°19'58"	91.30'
(48)	577.00'	85.61'	8°30'04"	42.88'
(49)	600.00'	87.63'	8°22'05"	43.89'

DOUGLAS STREET (ROUTE 16) CONSTRUCTION					
	STATION			NORTHING	EASTING
PRC	7+81.98			610753.8689	2849085.2692
		R=580.00'	L=65.00'		
PT	8+46.98			610782.3553	2849143.6525
		N29°13'09"E	185.33'		
PC	10+32.31			610872.8251	2849305.4027

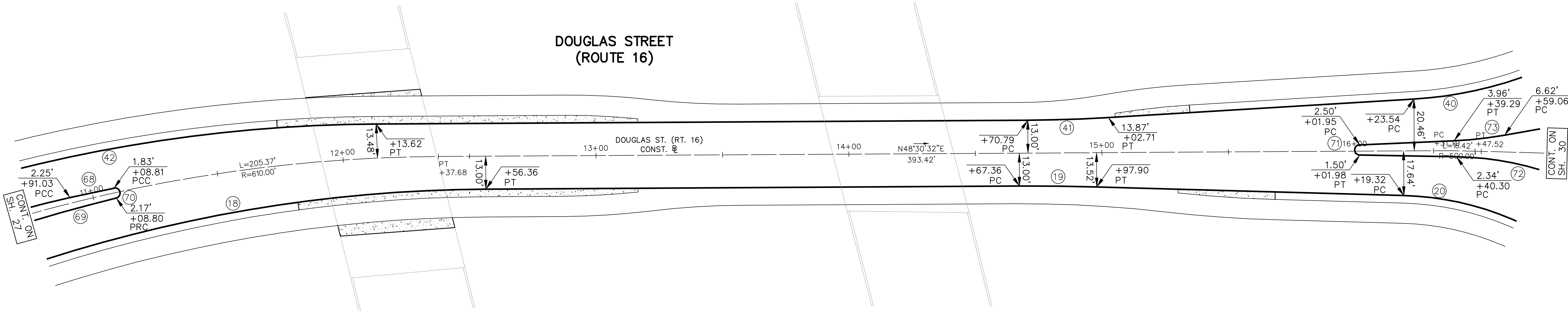
RT 146 SOUTHBOUND ON-RAMP CONSTRUCTION					
	STATION			NORTHING	EASTING
PCC	2+55.02			610785.2087	2849095.3777
		R=98.00'	L=50.38'		
PCC	3+05.40			610821.5969	2849129.4119
		R=58.00'	L=22.51'		
PCC	3+27.91			610842.9635	2849136.0420
		R=198.00'	L=44.39'		
PT	3+72.30			610887.2566	2849135.8081
		S83°16'31"E	142.41'		
PC	5+14.71			611028.6878	2849119.1321
		R=520.00'	L=174.78'		
PT	6+89.48			611195.6045	2849070.1534
		S64°01'04"E	160.52'		
END	8+50.00			611339.8968	2848999.8330

REV.	DESCRIPTION	BY	DATE
CURBTIE PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059	File Name: 1059 Curbtie Plan.dwg		
Date: Mar. 8, 2021	Scale: As Noted	Sheet 28 of 106	

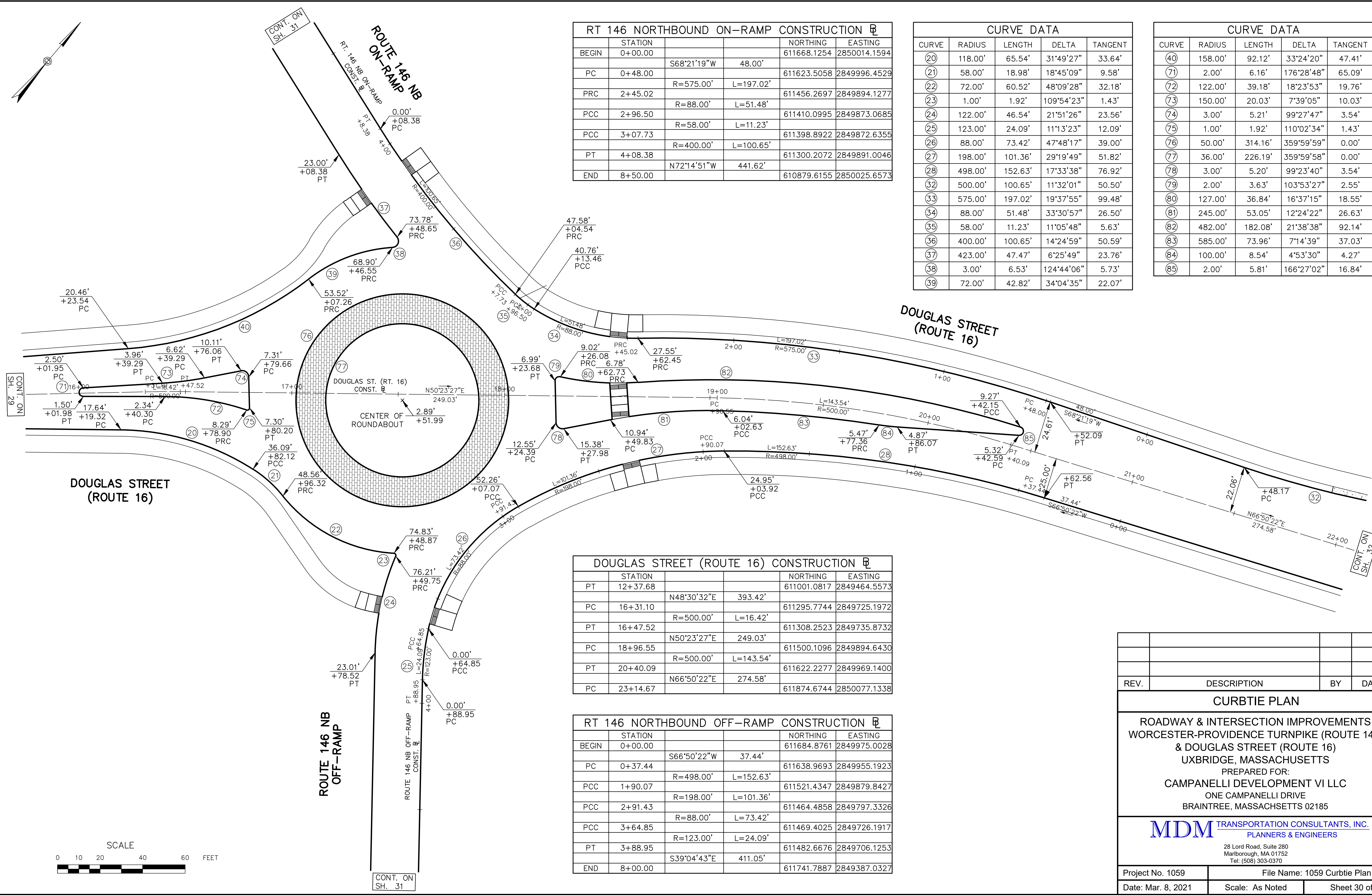
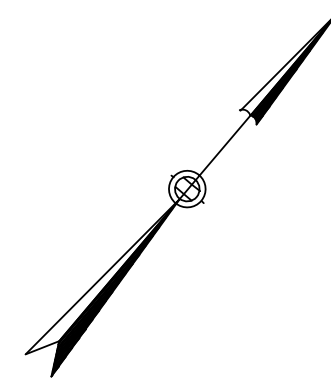


DOUGLAS STREET (ROUTE 16) CONSTRUCTION 2					
	STATION			NORTHING	EASTING
PC	10+32.31			610872.8251	2849305.4027
		R=610.00'	L=205.37'		
PT	12+37.68			611001.0817	2849464.5573
		N48°30'32"E	393.42'		
PC	16+31.10			611295.7744	2849725.1972
		R=500.00'	L=16.42'		
PT	16+47.52			611308.2523	2849735.8732
		N50°23'27"E	266.02'		
PC	19+13.54			611513.1933	2849905.4703

CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
(18)	580.00'	176.93'	17°28'42"	89.16'
(19)	900.00'	30.54'	1°56'39"	15.27'
(20)	118.00'	65.54'	31°49'27"	33.64'
(40)	158.00'	92.12'	33°24'20"	47.41'
(41)	586.00'	31.94'	3°07'21"	15.97'
(42)	600.00'	183.27'	17°30'03"	92.35'
(43)	590.00'	17.84'	1°43'58"	8.92'
(69)	630.00'	33.79'	3°04'23"	16.90'
(70)	2.00'	6.19'	177°17'42"	84.71'
(71)	2.00'	6.16'	176°28'48"	65.09'
(72)	122.00'	39.18'	18°23'53"	19.76'
(73)	150.00'	20.03'	7°39'05"	10.03'



REV.	DESCRIPTION	BY	DATE
CURBTIE PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Curbtie Plan.dwg	
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RT 146 NORTHBOUND ON-RAMP CONSTRUCTION E					
	STATION			NORTHING	EASTING
BEGIN	0+00.00			611668.1254	2850014.1594
PC	0+48.00	S68°21'19"W	48.00'	611623.5058	2849996.4529
PRC	2+45.02	R=575.00'	L=197.02'	611456.2697	2849894.1277
PCC	2+96.50	R=88.00'	L=51.48'	611410.0995	2849873.0685
PCC	3+07.73	R=58.00'	L=11.23'	611398.8922	2849872.6355
		R=400.00'	L=100.65'		
PT	4+08.38	N72°14'51"W	441.62'	611300.2072	2849891.0046
END	8+50.00			610879.6155	2850025.6573

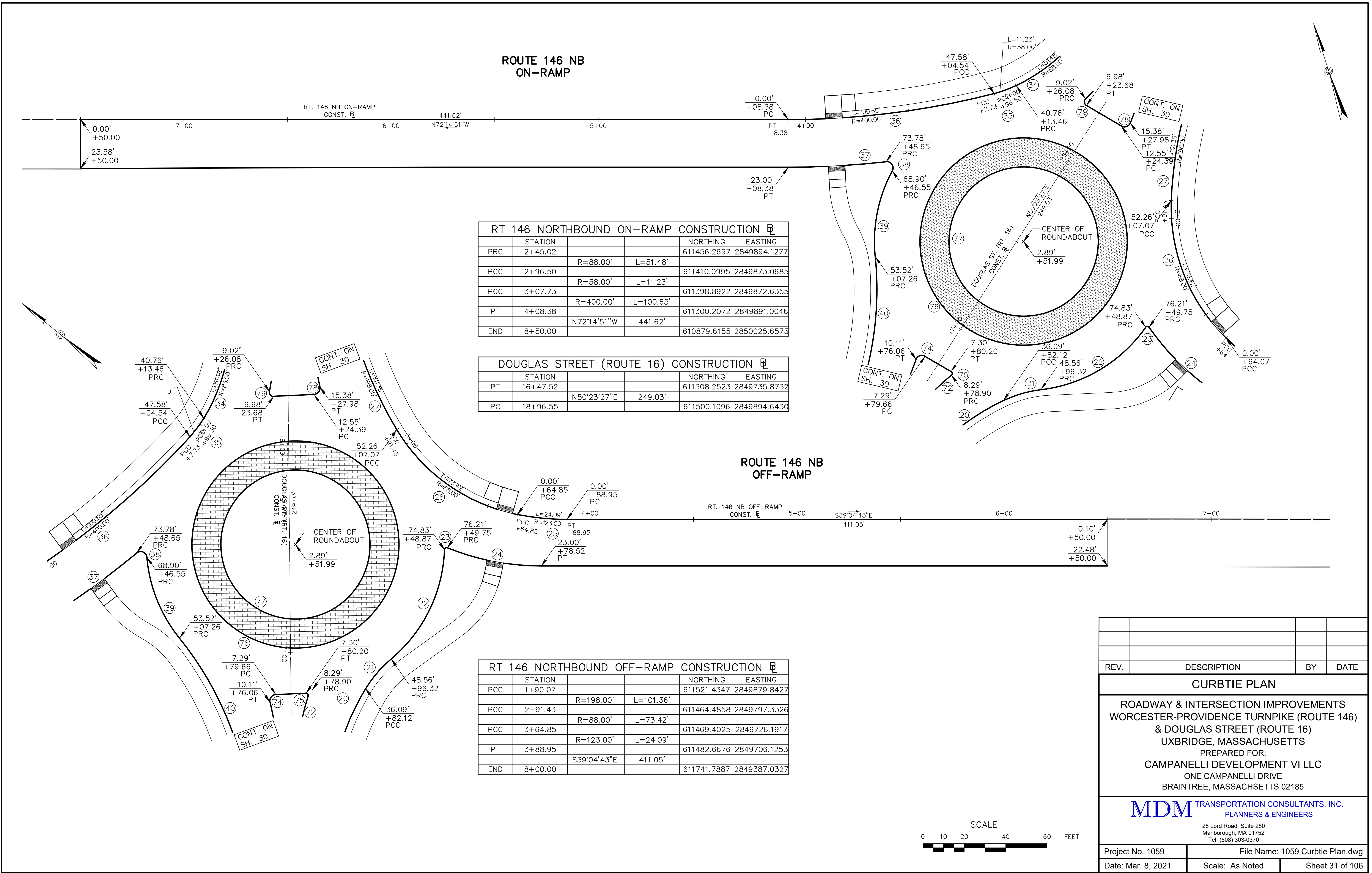
CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
20	118.00'	65.54'	31°49'27"	33.64'
21	58.00'	18.98'	18°45'09"	9.58'
22	72.00'	60.52'	48°09'28"	32.18'
23	1.00'	1.92'	109°54'23"	1.43'
24	122.00'	46.54'	21°51'26"	23.56'
25	123.00'	24.09'	11°13'23"	12.09'
26	88.00'	73.42'	47°48'17"	39.00'
27	198.00'	101.36'	29°19'49"	51.82'
28	498.00'	152.63'	17°33'38"	76.92'
32	500.00'	100.65'	11°32'01"	50.50'
33	575.00'	197.02'	19°37'55"	99.48'
34	88.00'	51.48'	33°30'57"	26.50'
35	58.00'	11.23'	11°05'48"	5.63'
36	400.00'	100.65'	14°24'59"	50.59'
37	423.00'	47.47'	6°25'49"	23.76'
38	3.00'	6.53'	124°44'06"	5.73'
39	72.00'	42.82'	34°04'35"	22.07'

CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
40	158.00'	92.12'	33°24'20"	47.41'
71	2.00'	6.16'	176°28'48"	65.09'
72	122.00'	39.18'	18°23'53"	19.76'
73	150.00'	20.03'	7°39'05"	10.03'
74	3.00'	5.21'	99°27'47"	3.54'
75	1.00'	1.92'	110°02'34"	1.43'
76	50.00'	314.16'	359°59'59"	0.00'
77	36.00'	226.19'	359°59'58"	0.00'
78	3.00'	5.20'	99°23'40"	3.54'
79	2.00'	3.63'	103°53'27"	2.55'
80	127.00'	36.84'	16°37'15"	18.55'
81	245.00'	53.05'	12°24'22"	26.63'
82	482.00'	182.08'	21°38'38"	92.14'
83	585.00'	73.96'	7°14'39"	37.03'
84	100.00'	8.54'	4°53'30"	4.27'
85	2.00'	5.81'	166°27'02"	16.84'

DOUGLAS STREET (ROUTE 16) CONSTRUCTION E					
	STATION			NORTHING	EASTING
PT	12+37.68			611001.0817	2849464.5573
PC	16+31.10	N48°30'32"E	393.42'	611295.7744	2849725.1972
		R=500.00'	L=16.42'		
PT	16+47.52			611308.2523	2849735.8732
PC	18+96.55	N50°23'27"E	249.03'	611500.1096	2849894.6430
		R=500.00'	L=143.54'		
PT	20+40.09			611622.2277	2849969.1400
PC	23+14.67	N66°50'22"E	274.58'	611874.6744	2850077.1338

RT 146 NORTHBOUND OFF-RAMP CONSTRUCTION E					
	STATION			NORTHING	EASTING
BEGIN	0+00.00			611684.8761	2849975.0028
PC	0+37.44	S66°50'22"W	37.44'	611638.9693	2849955.1923
		R=498.00'	L=152.63'		
PCC	1+90.07			611521.4347	2849879.8427
PCC	2+91.43	R=198.00'	L=101.36'	611464.4858	2849797.3326
		R=88.00'	L=73.42'		
PCC	3+64.85			611469.4025	2849726.1917
		R=123.00'	L=24.09'		
PT	3+88.95	S39°04'43"E	411.05'	611482.6676	2849706.1253
END	8+00.00			611741.7887	2849387.0327

REV.	DESCRIPTION	BY	DATE
CURBTIE PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Curbtie Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 30 of 106



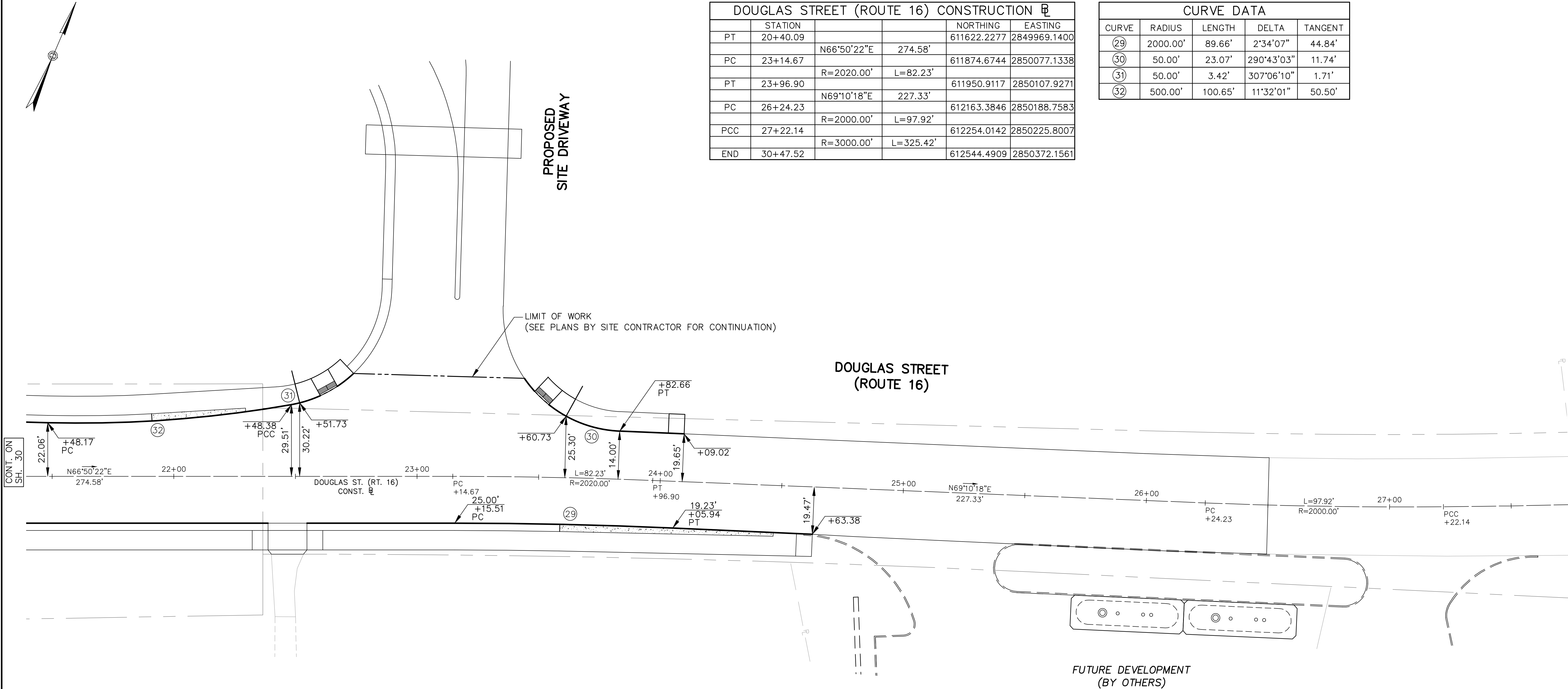
RT 146 NORTHBOUND ON-RAMP CONSTRUCTION					
PRC	STATION		NORTHING	EASTING	
	2+45.02		611456.2697	2849894.1277	
		R=88.00'	L=51.48'		
PCC	2+96.50		611410.0995	2849873.0685	
		R=58.00'	L=11.23'		
PCC	3+07.73		611398.8922	2849872.6355	
		R=400.00'	L=100.65'		
PT	4+08.38		611300.2072	2849891.0046	
		N72°14'51"W	441.62'		
END	8+50.00		610879.6155	2850025.6573	

DOUGLAS STREET (ROUTE 16) CONSTRUCTION					
PT	STATION		NORTHING	EASTING	
	16+47.52		611308.2523	2849735.8732	
		N50°23'27"E	249.03'		
PC	18+96.55		611500.1096	2849894.6430	

RT 146 NORTHBOUND OFF-RAMP CONSTRUCTION					
PCC	STATION		NORTHING	EASTING	
	1+90.07		611521.4347	2849879.8427	
		R=198.00'	L=101.36'		
PCC	2+91.43		611464.4858	2849797.3326	
		R=88.00'	L=73.42'		
PCC	3+64.85		611469.4025	2849726.1917	
		R=123.00'	L=24.09'		
PT	3+88.95		611482.6676	2849706.1253	
		S39°04'43"E	411.05'		
END	8+00.00		611741.7887	2849387.0327	



REV.	DESCRIPTION	BY	DATE
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Project No. 1059		File Name: 1059 Curbtie Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 31 of 106



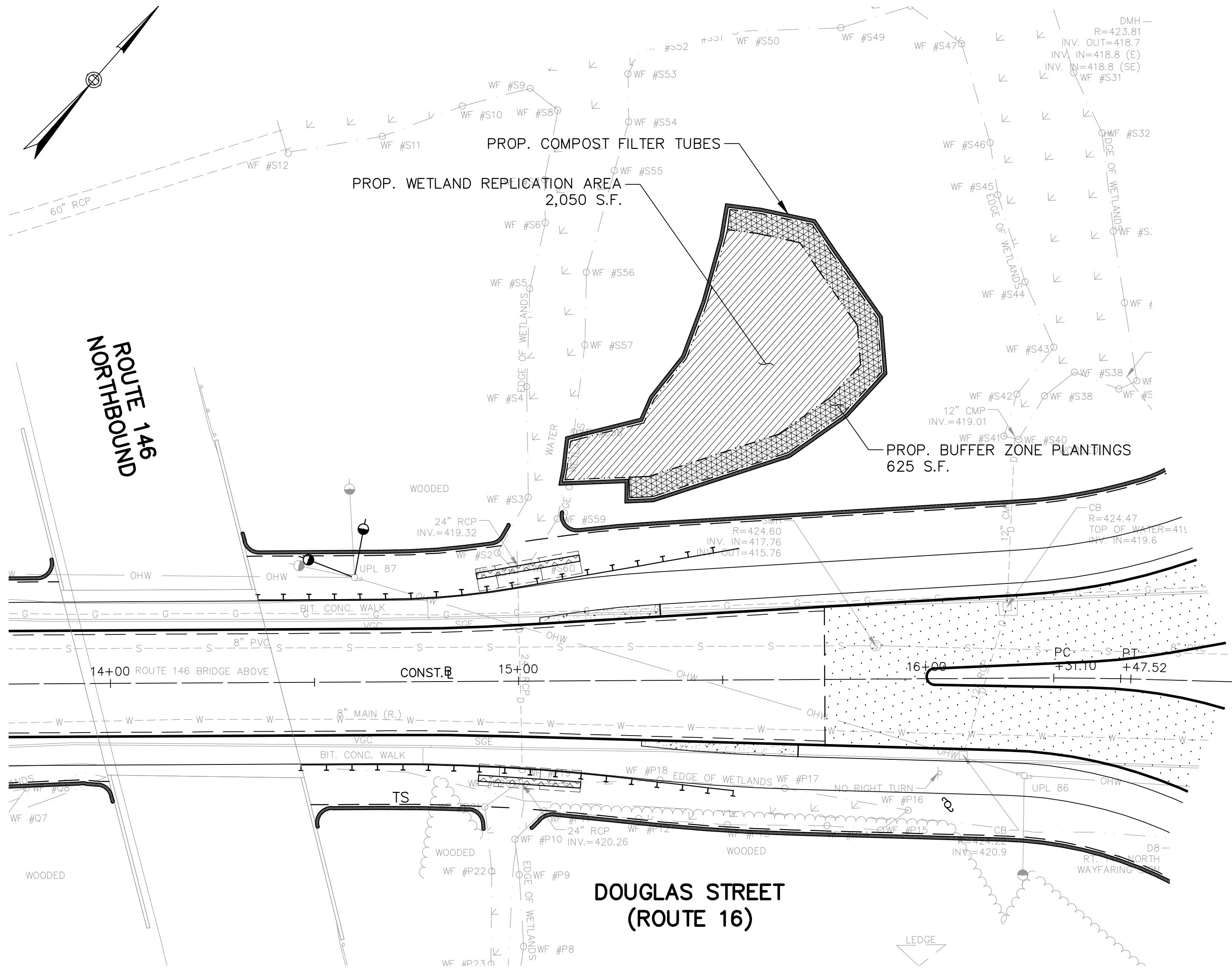
DOUGLAS STREET (ROUTE 16) CONSTRUCTION					
	STATION			NORTHING	EASTING
PT	20+40.09			611622.2277	2849969.1400
		N66°50'22"E	274.58'		
PC	23+14.67			611874.6744	2850077.1338
		R=2020.00'	L=82.23'		
PT	23+96.90			611950.9117	2850107.9271
		N69°10'18"E	227.33'		
PC	26+24.23			612163.3846	2850188.7583
		R=2000.00'	L=97.92'		
PCC	27+22.14			612254.0142	2850225.8007
		R=3000.00'	L=325.42'		
END	30+47.52			612544.4909	2850372.1561

CURVE DATA				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
29	2000.00'	89.66'	2°34'07"	44.84'
30	50.00'	23.07'	290°43'03"	11.74'
31	50.00'	3.42'	307°06'10"	1.71'
32	500.00'	100.65'	11°32'01"	50.50'

REV.	DESCRIPTION	BY	DATE
CURBTIE PLAN			
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MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
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WETLAND REPLICATION CONSTRUCTION NOTES

1. THE CONSTRUCTION OF THE WETLAND REPLICATION AREA SHALL BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A QUALIFIED PROFESSIONAL WETLAND SCIENTIST.
2. THE WETLAND BOUNDARY (I.E., DOWNGRAIDENT EDGE OF THE WETLAND REPLICATION AREA) SHALL BE MARKED IN THE FIELD. THE WETLAND BOUNDARY IN THIS AREA MUST BE ACCURATELY DEPICTED IN THE FIELD.
3. PRIOR TO THE START OF EARTH-MOVING ACTIVITIES, AN EROSION CONTROL BARRIER OF PROPERLY INSTALLED COMPOST FILTER TUBES SHALL BE INSTALLED TO AVOID THE INTRODUCTION OF INVASIVE SPECIES TO THE WETLAND REPLICATION AREA. SAID TUBES SHALL BE INSTALLED EXACTLY ALONG THE WETLAND BOUNDARY BETWEEN THE BANK AND THE WETLAND REPLICATION AREA AND ALONG THE WESTERN, NORTHERN, AND EASTERN EDGES OF THE WETLAND REPLICATION AREA AND BUFFER ZONE AREA.
4. THE PROPOSED WETLAND REPLICATION AREA SHALL BE CAREFULLY CLEARED AND GRUBBED. FIVE (5) TEN FOOT (10'-0") LONG SEGMENTS OF FIVE (5") TO EIGHT (8") INCH DIAMETER LOGS AND TEN (10) BRANCHES SHALL BE RETAINED FROM THE TREES REMOVED FROM THE WETLAND REPLICATION AREA FOR USE AS HABITAT FEATURES AS DESCRIBED BELOW.
5. THE PROPOSED WETLAND REPLICATION AREA SHALL BE EXCAVATED TO A GRADE OF EIGHT (8") TO TWELVE (12") INCHES BELOW THE EXISTING GRADE OF THE BOUNDARY OF THE BANK AT THE CONNECTION TO THE EXISTING STREAM NEAR FLAGS S59 AND S58. THIS GRADE SHALL BE DETERMINED BY THE QUALIFIED PROFESSIONAL WETLAND SCIENTIST IN THE FIELD AT THE START OF CONSTRUCTION OF THE AREA. THE INTENT IS TO CREATE A DEPRESSED AREA OF VARIOUS ELEVATIONS THAT HAS POSITIVE DRAINAGE TO THE BORDERING STREAM; THERE IS NO INTENTION FOR THIS AREA TO ACCUMULATE AND STORE STANDING WATER. THE SOUTHERN AND EASTERN SIDE SLOPES TO THE WETLAND REPLICATION AREA SHALL BE GRADED TO CREATE THE PROPOSED VEGETATED BUFFER ZONE AREA. THE WETLAND REPLICATION AREA SHALL BE BROUGHT TO THE PROPOSED FINAL GRADE WITH A MINIMUM OF EIGHT (8") TO TWELVE (12") INCHES OF A ROUGHLY GRADED WETLAND SUBSTRATE. THE WETLAND SUBSTRATE SHALL CONSIST OF A 1:1 MIXTURE OF LOAMY TOP SOIL AND LEAF COMPOST. DUE TO THE SMALL SIZE OF THE WETLAND IMPACT AREAS AND THE PRESENCE OF INVASIVE SPECIES IN THESE AREAS, WETLAND SOIL FROM THESE AREAS SHALL NOT BE USED IN THE PROPOSED WETLAND REPLICATION AREA. THE BUFFER ZONE SIDE SLOPE SHALL BE BROUGHT TO FINAL GRADE WITH FOUR (4") TO SIX (6") INCHES OF ROUGHLY GRADED HIGH-QUALITY LOAMY TOP SOIL. THE EXCAVATION AND GRADING WORK SHALL BE CLOSELY SUPERVISED BY THE QUALIFIED PROFESSIONAL WETLAND SCIENTIST. MODIFICATIONS TO THE PROPOSED GRADING MAY BE MADE IN THE FIELD BY THE QUALIFIED PROFESSIONAL WETLAND SCIENTIST IN RESPONSE TO OBSERVED SUBSURFACE HYDROLOGIC CONDITIONS. THE AREAS SHALL BE GRADED TO HAVE A VARIED MICROTOPOGRAPHY AND SHALL INCLUDE PITS, MOUNDS, VALLEYS, AND RIDGES; AGAIN, THIS AREA MUST HAVE POSITIVE DRAINAGE TO THE BORDERING STREAM. AFTER THE AREA HAS BEEN BROUGHT TO FINAL GRADE, A SIX (6") INCH DIAMETER COMPOST FILTER TUBE SHALL BE PLACED AT THE BREAK BETWEEN THE WETLAND REPLICATION AREA AND THE ADJACENT BUFFER ZONE AREA.
6. FIVE (5) LOGS AND TEN (10) BRANCHES RETAINED IN NOTE #4 ABOVE SHALL BE DISTRIBUTED IN THE WETLAND REPLICATION AREA TO PROVIDE ADDITIONAL WILDLIFE HABITAT FEATURES WITHIN THE AREA.
7. THE WETLAND REPLICATION AREA SHALL BE PLANTED WITH WETLAND SAPLING AND SHRUB SPECIES AS SPECIFIED IN THE TABLE BELOW. THE WOODY PLANTS MUST BE LOCATED AND SPACED UNDER THE SUPERVISION OF THE QUALIFIED PROFESSIONAL WETLAND SCIENTIST. THE ADJACENT VEGETATED BUFFER ZONE AREA SHALL BE PLANTED WITH UPLAND SAPLING AND SHRUB SPECIES AS SPECIFIED IN THE TABLE BELOW AND AS DIRECTED BY THE QUALIFIED PROFESSIONAL WETLAND SCIENTIST. THE WESTERN EDGE OF THE WETLAND REPLICATION AREA PROXIMATE TO THE EXISTING/REMAINING TREE LINE AT THE PROPOSED CONNECTION TO THE STREAM SHALL BE AUGMENTED WITH FOUR (4) SAPLINGS AND SIXTEEN (16) SHRUBS. THREE (3) 120± SQUARE FOOT WOODY VEGETATION POCKETS SHALL BE ESTABLISHED THROUGHOUT THE BALANCE OF THE WETLAND REPLICATION AREA; EACH POCKET SHALL CONSIST OF ONE (1) SAPLING AND SIX (6) SHRUBS. THE WOODY VEGETATION SHOULD NOT BE PLANTED IN ROWS. AFTER THE WOODY MATERIALS ARE PLANTED AND MULCHED WITH SALT MARSH HAY, THE AREA SHALL BE SEEDED WITH THE SEED MIXTURES AS SPECIFIED IN THE TABLE BELOW AND THE ENTIRE AREA LIGHTLY MULCHED WITH SALT MARSH HAY.
8. ONCE THE WETLAND REPLICATION AREA AND BUFFER ZONE AREA HAVE BECOME VEGETATIVELY STABILIZED, AND FOLLOWING APPROVAL OF THE ISSUING AUTHORITY, ALL WOODEN STAKES SHALL BE REMOVED AND DISPOSED OF PROPERLY.
9. FOR A TWO (2) YEAR PERIOD FOLLOWING THE CONSTRUCTION OF THE WETLAND REPLICATION AREA, VEGETATION AND HYDROLOGY SHALL BE EVALUATED NEAR THE END OF EACH GROWING SEASON BY A QUALIFIED PROFESSIONAL WETLAND SCIENTIST. ANNUAL REPORTS THAT DESCRIBE THE STATUS OF THE WETLAND REPLICATION AREA SHALL BE PROVIDED TO THE COMMISSION IN A TIMELY MANNER. IF AT THE END OF A TWO (2) YEAR PERIOD APPROPRIATE VEGETATION COVERAGE IN THE WETLAND REPLICATION AREAS IS NOT 75% OR GREATER, ADDITIONAL MEASURES SHALL BE RECOMMENDED FOR REVIEW AND APPROVAL BY THE COMMISSION PRIOR TO IMPLEMENTATION.



PLANTING SCHEDULES

WETLAND REPLICATION AREA – WESTERN EDGE PLANTINGS			
NO.	BOTANICAL NAME	COMMON NAME	SIZE
2	ACER RUBRUM	RED MAPLE	6–8 FOOT HEIGHT
2	ULMUS AMERICANA	AMERICAN ELM	6–8 FOOT HEIGHT
4	ILEX VERTICILLATA	COMMON WINTERBERRY	3–4 FOOT HEIGHT
4	VIBURNUM DENTATUM	NORTHERN ARROW-WOOD	3–4 FOOT HEIGHT
4	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	3–4 FOOT HEIGHT
4	CLETHRA ALNIFOLIA	SWEET PEPPER-BUSH	3–4 FOOT HEIGHT

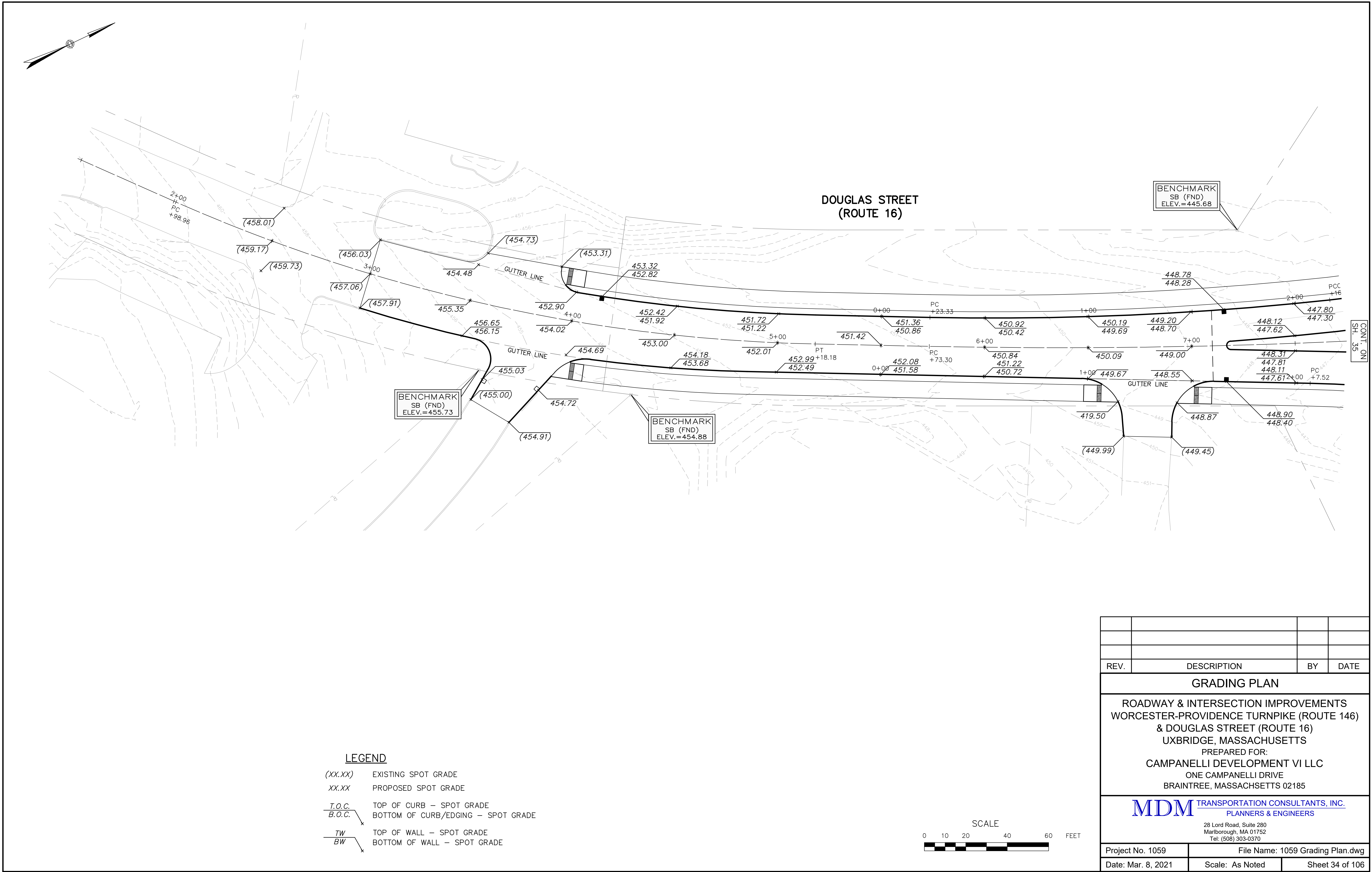
WETLAND REPLICATION AREA – WOODY VEGETATION POCKETS			
NO.	BOTANICAL NAME	COMMON NAME	SIZE
3	ACER RUBRUM	RED MAPLE	6–8 FOOT HEIGHT
6	CORNUS AMOMUM	SILKY DOGWOOD	3–4 FOOT HEIGHT
6	ILEX VERTICILLATA	COMMON WINTERBERRY	3–4 FOOT HEIGHT
6	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	3–4 FOOT HEIGHT

WETLAND REPLICATION AREA – WET MEADOW SEEDING			
	SEED MIX	SIZE	REMARKS
	NEW ENGLAND WET MIX (OR EQUIVALENT)	1 POUND	
	NEW ENGLAND MATRIX WET MEADOW SEED (OR EQUIVALENT)	1 POUND	

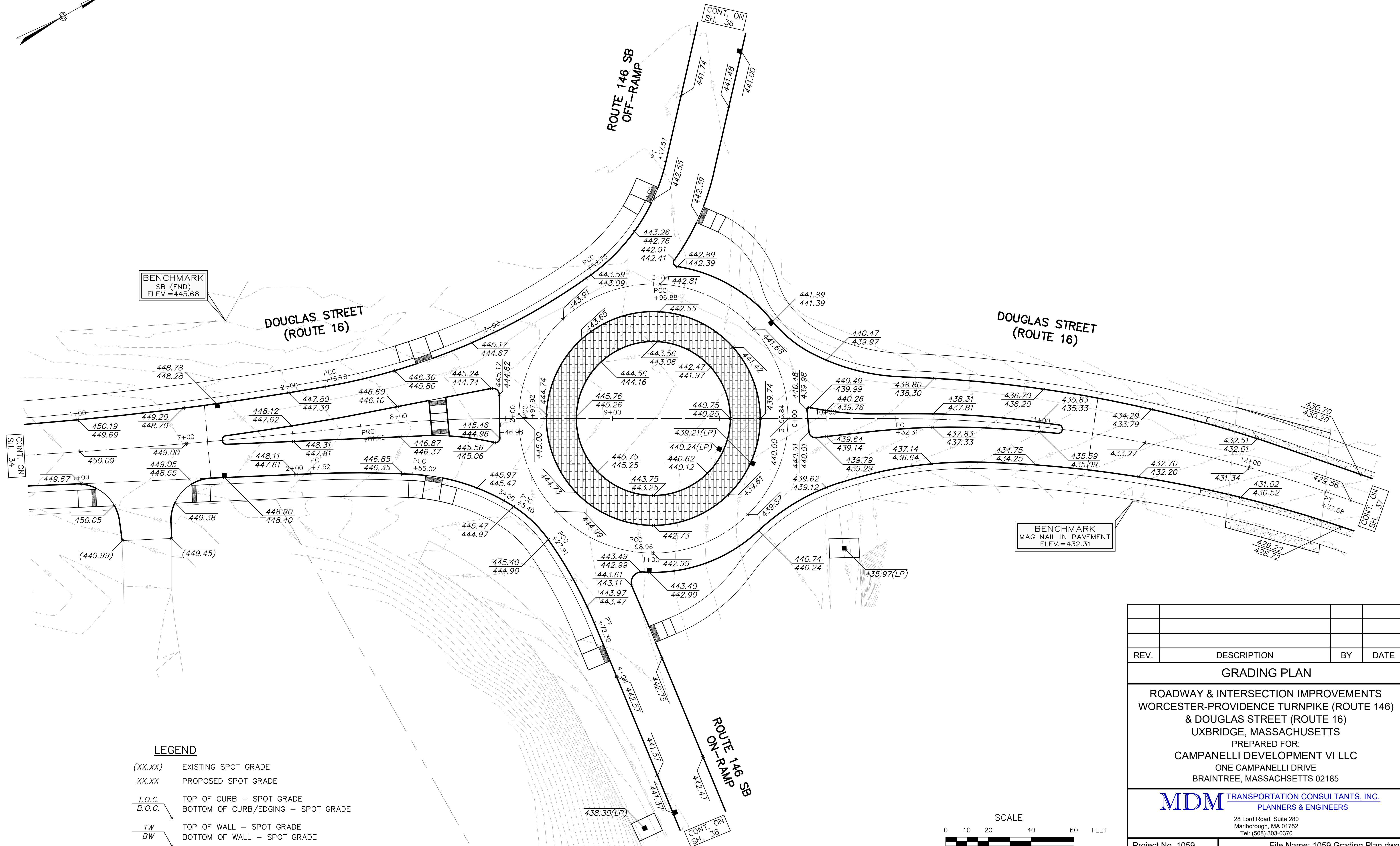
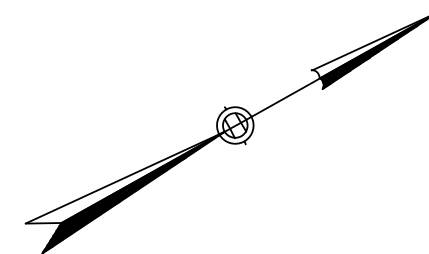
PLANTING SCHEDULE FOR BUFFER ZONE PLANTINGS (625± S.F.)			
NO.	BOTANICAL NAME	COMMON NAME	SIZE
3	QUERCUS RUBRA	NORTHERN RED OAK	6–8 FOOT HEIGHT
3	PINUS STROBUS	EASTERN WHITE PINE	6–8 FOOT HEIGHT
7	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	3–4 FOOT HEIGHT
7	HAMAMELIS VIRGINIANA	AMERICAN WITCH-HAZEL	3–4 FOOT HEIGHT
7	CORNUS RACEMOSA	GRAY DOGWOOD	3–4 FOOT HEIGHT



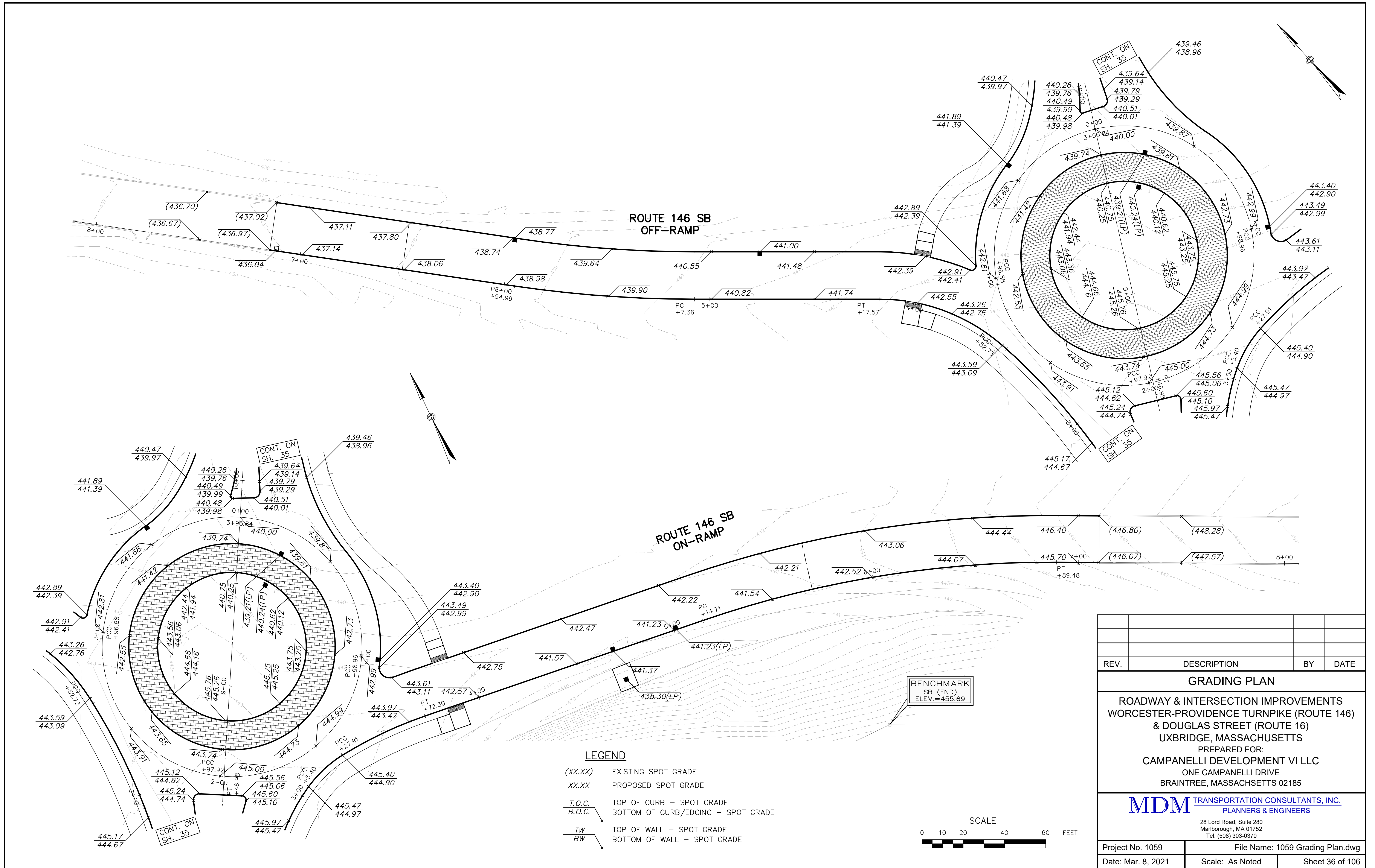
1	CON. COMM. COMMENTS	MLH	1/20/22
REV.	DESCRIPTION	BY	DATE
WETLAND REPLICATION PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
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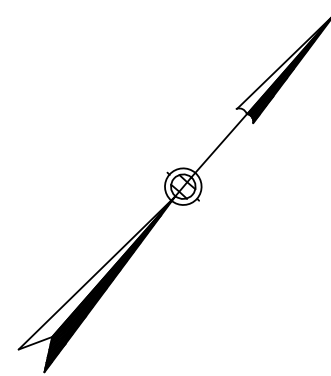
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GRADING PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
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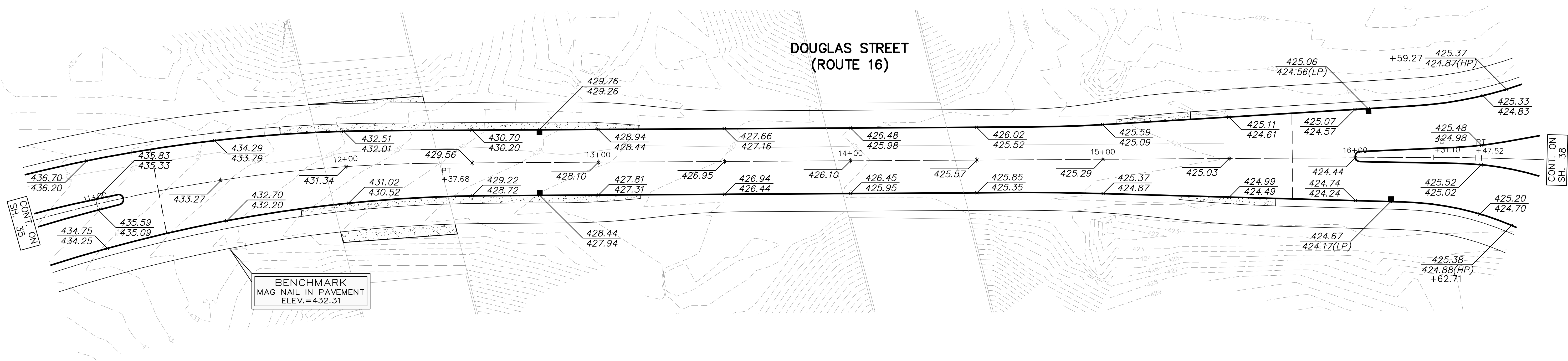
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ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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DOUGLAS STREET  
(ROUTE 16)

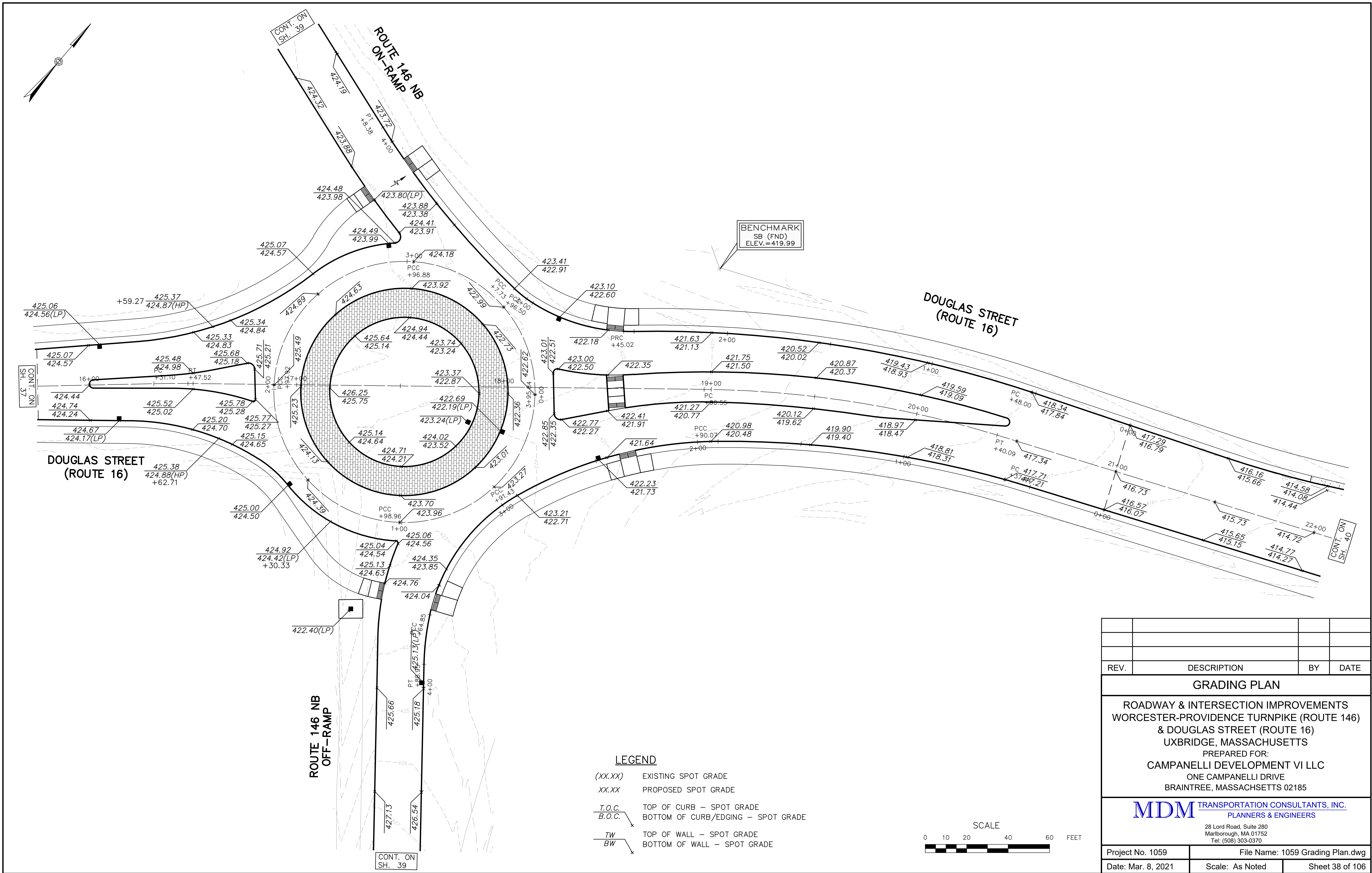


LEGEND

- (XX.XX) EXISTING SPOT GRADE  
XX.XX PROPOSED SPOT GRADE  
T.O.C. TOP OF CURB - SPOT GRADE  
B.O.C. BOTTOM OF CURB/EDGING - SPOT GRADE  
T.W. TOP OF WALL - SPOT GRADE  
B.W. BOTTOM OF WALL - SPOT GRADE



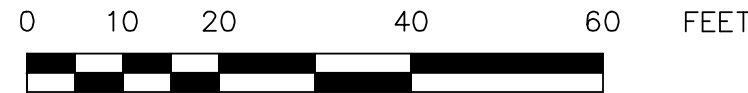
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GRADING PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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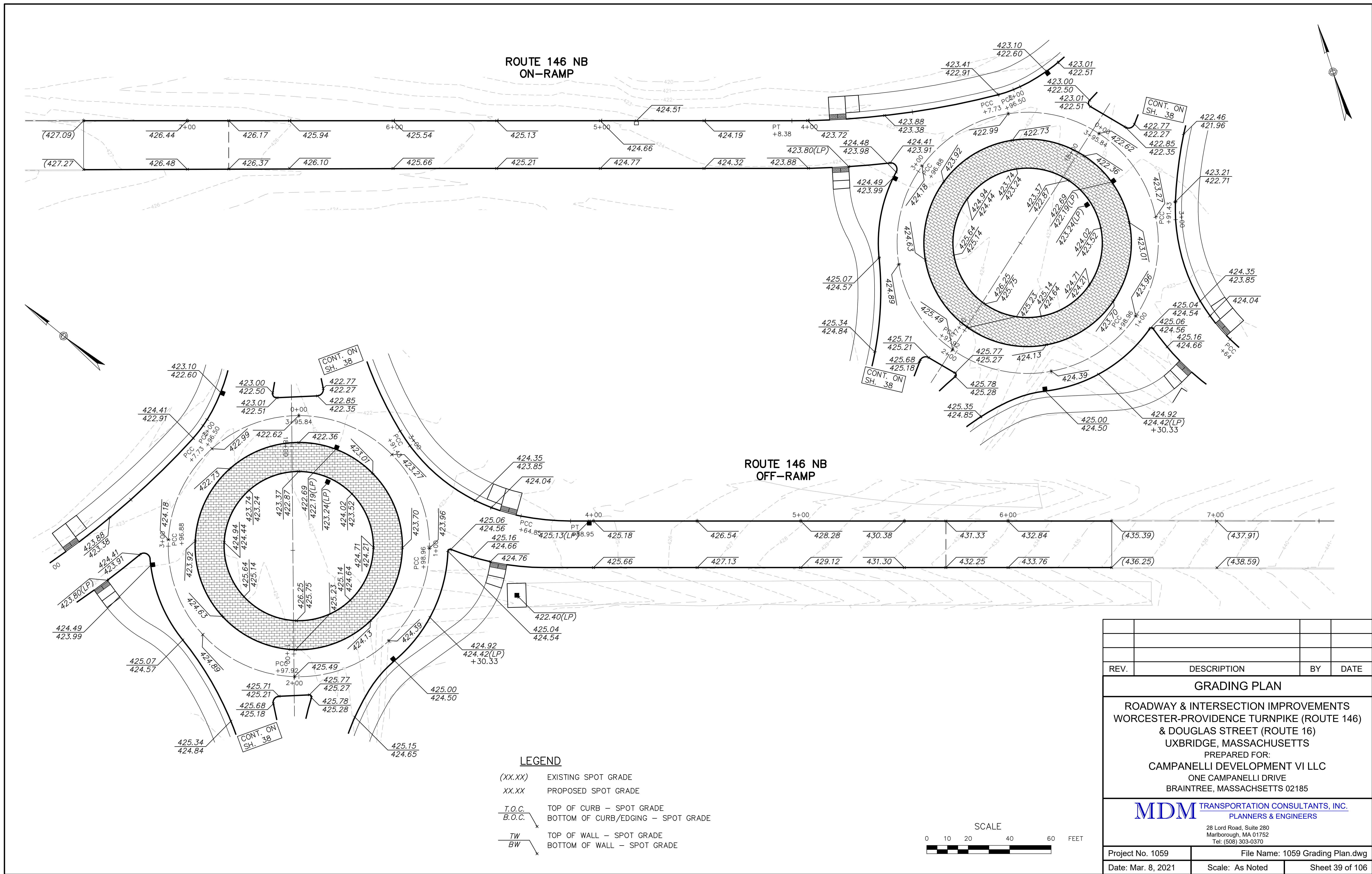
LEGEND

- (XX.XX) EXISTING SPOT GRADE  
XX.XX PROPOSED SPOT GRADE  
T.O.C. TOP OF CURB - SPOT GRADE  
B.O.C. BOTTOM OF CURB/EDGING - SPOT GRADE  
TW TOP OF WALL - SPOT GRADE  
BW BOTTOM OF WALL - SPOT GRADE

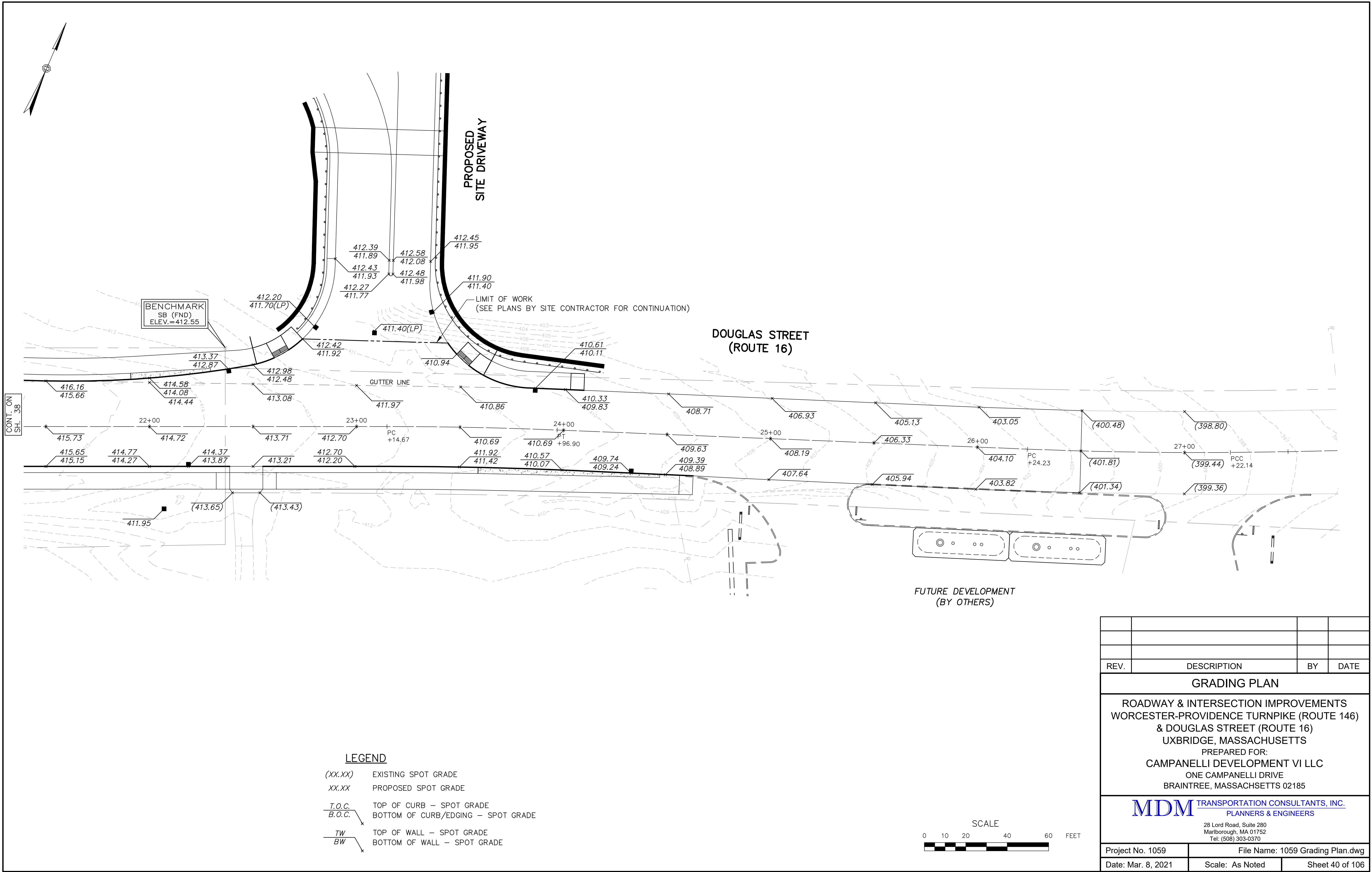
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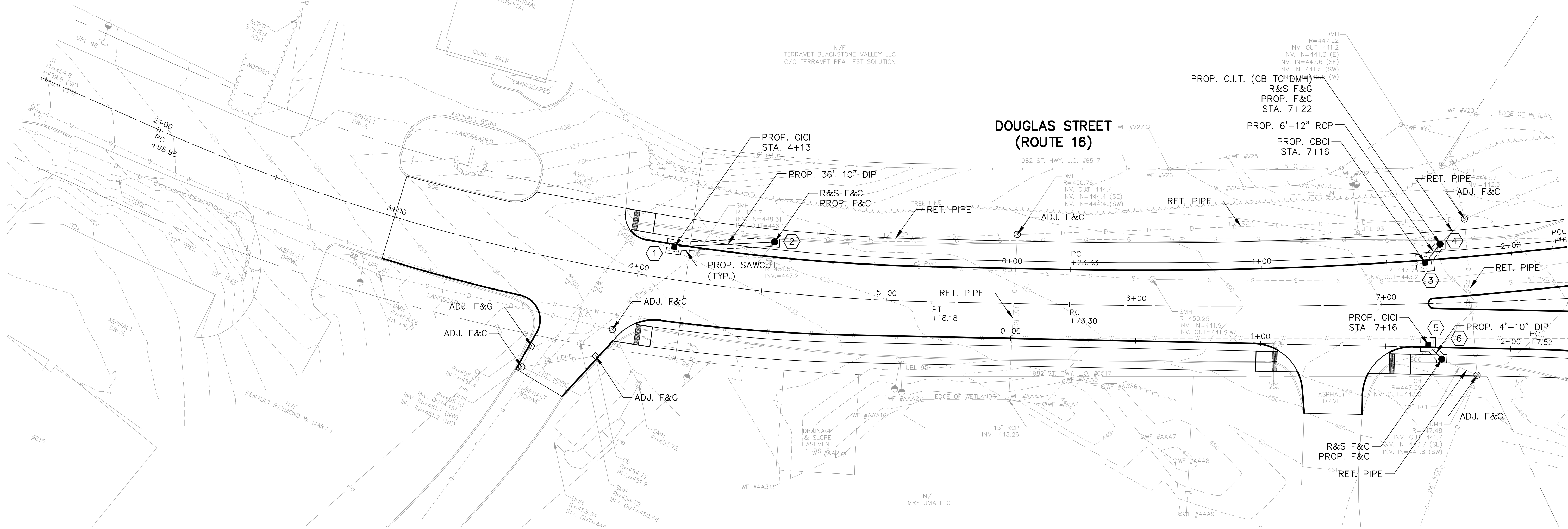
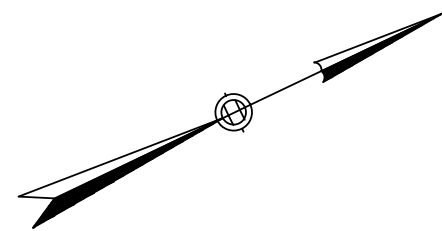


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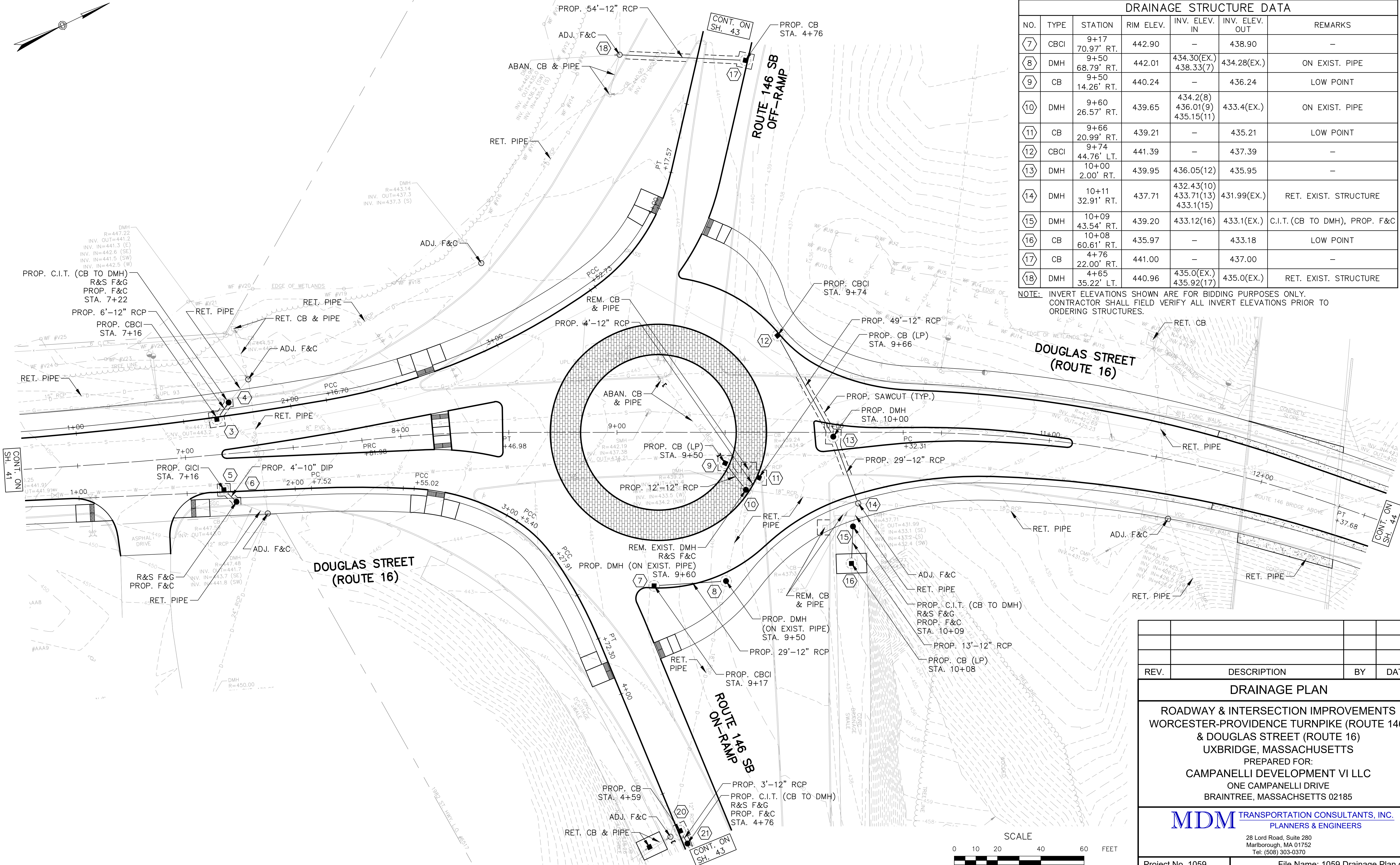
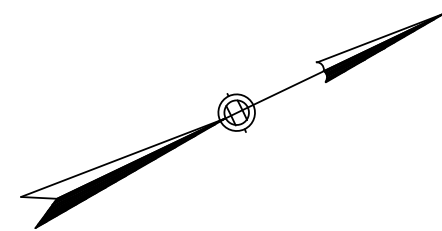
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SH. 42

DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
1	GICI	4+13 13.00' LT.	452.82	—	449.80	—
2	CB	4+53 20.03' LT.	452.43	449.08(1)	447.2(EX.)	R&S F&G, PROP. F&C, RET. SUMP
3	CBCI	7+16 16.38' LT.	448.28	—	444.20	—
4	DMH	7+22 23.59' LT.	448.69	443.30(3)	443.2(EX.)	C.I.T. (CB TO DMH), PROP. F&C
5	GICI	7+16 16.39' RT.	448.40	—	445.40	—
6	CB	7+22 22.41' RT.	448.90	445.30(5)	444.3(EX.)	R&S F&G, PROP. F&C, RET. SUMP

NOTE: INVERT ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY.  
CONTRACTOR SHALL FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO ORDERING STRUCTURES.



REV.	DESCRIPTION	BY	DATE
DRAINAGE PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Drainage Plan.dwg	
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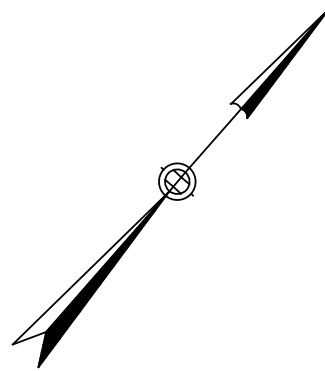
DRAINAGE STRUCTURE DATA						
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7	CBCI	9+17 70.97' RT.	442.90	—	438.90	—
8	DMH	9+50 68.79' RT.	442.01	434.30(EX.) 438.33(7)	434.28(EX.)	ON EXIST. PIPE
9	CB	9+50 14.26' RT.	440.24	—	436.24	LOW POINT
10	DMH	9+60 26.57' RT.	439.65	434.2(8) 436.01(9) 435.15(11)	433.4(EX.)	ON EXIST. PIPE
11	CB	9+66 20.99' RT.	439.21	—	435.21	LOW POINT
12	CBCI	9+74 44.76' LT.	441.39	—	437.39	—
13	DMH	10+00 2.00' RT.	439.95	436.05(12)	435.95	—
14	DMH	10+11 32.91' RT.	437.71	432.43(10) 433.71(13) 433.1(15)	431.99(EX.)	RET. EXIST. STRUCTURE
15	DMH	10+09 43.54' RT.	439.20	433.12(16)	433.1(EX.)	C.I.T. (CB TO DMH), PROP. F&C
16	CB	10+08 60.61' RT.	435.97	—	433.18	LOW POINT
17	CB	4+76 22.00' RT.	441.00	—	437.00	—
18	DMH	4+65 35.22' LT.	440.96	435.0(EX.) 435.92(17)	435.0(EX.)	RET. EXIST. STRUCTURE

NOTE: INVERT ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO ORDERING STRUCTURES.

REV.	DESCRIPTION	BY	DATE
DRAINAGE PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Drainage Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 42 of 106

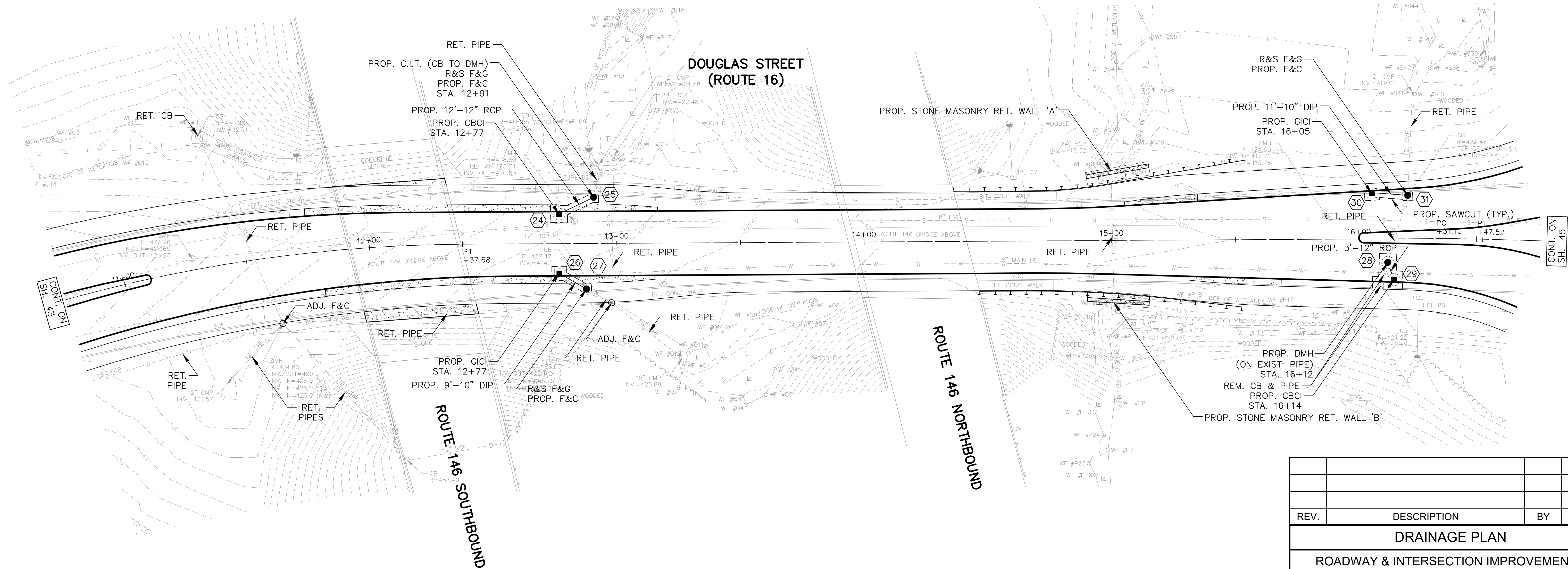


REV.	DESCRIPTION	BY	DATE
DRAINAGE PLAN			
<p>ROADWAY &amp; INTERSECTION IMPROVEMENTS  WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146)  &amp; DOUGLAS STREET (ROUTE 16)  UXBRIDGE, MASSACHUSETTS</p> <p>PREPARED FOR:  CAMPANELLI DEVELOPMENT VI LLC  ONE CAMPANELLI DRIVE  BRAINTREE, MASSACHUSETTS 02185</p>			
 <u>TRANSPORTATION CONSULTANTS, INC.</u> <u>PLANNERS &amp; ENGINEERS</u>			
28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Drainage Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	
		Sheet 43 of 106	

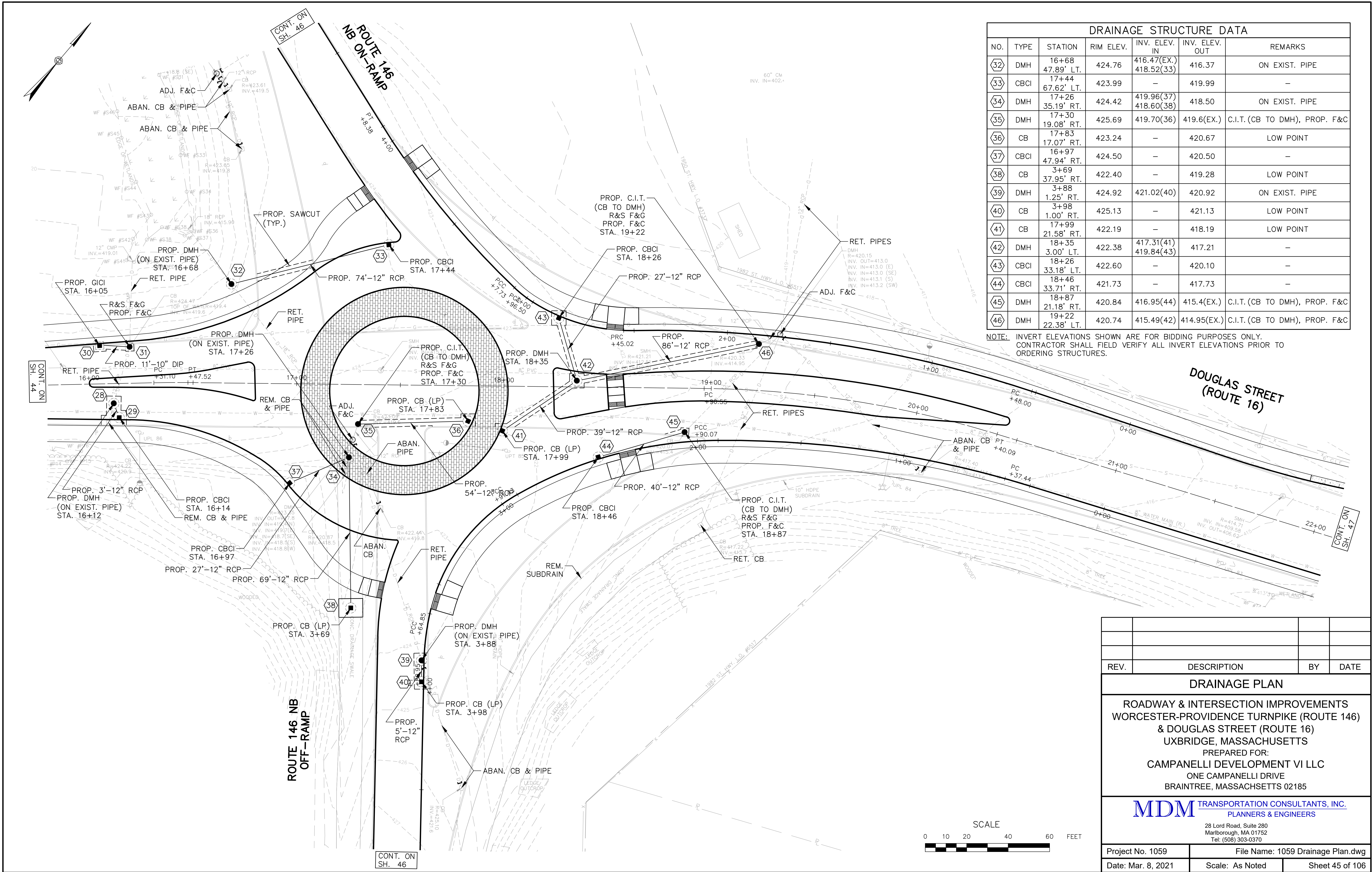


DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
24	CBCI	12+77 12.00' LT.	429.26	—	425.26	—
25	DMH	12+91 18.63' LT.	429.36	425.04(24)	424.6(EX.)	C.I.T. (CB TO DMH), PROP. F&C
26	GICI	12+77 12.00' RT.	427.94	—	424.94	—
27	CB	12+88 18.41' RT.	428.20	424.77(26)	424.1(EX.)	R&S F&G, PROP. F&C, RET. SUMP
28	DMH	16+12 9.55' RT.	424.39	421.02(28)	420.61	ON EXIST. PIPE
29	CBCI	16+14 16.46' RT.	424.17	—	421.17	—
30	GICI	16+05 18.50' LT.	424.56	—	421.56	—
31	CB	16+20 17.53' LT.	424.63	421.56(30)	419.6(EX.)	R&S F&G, PROP. F&C, RET. SUMP

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REV.	DESCRIPTION	BY	DATE
DRAINAGE PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Drainage Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 44 of 106




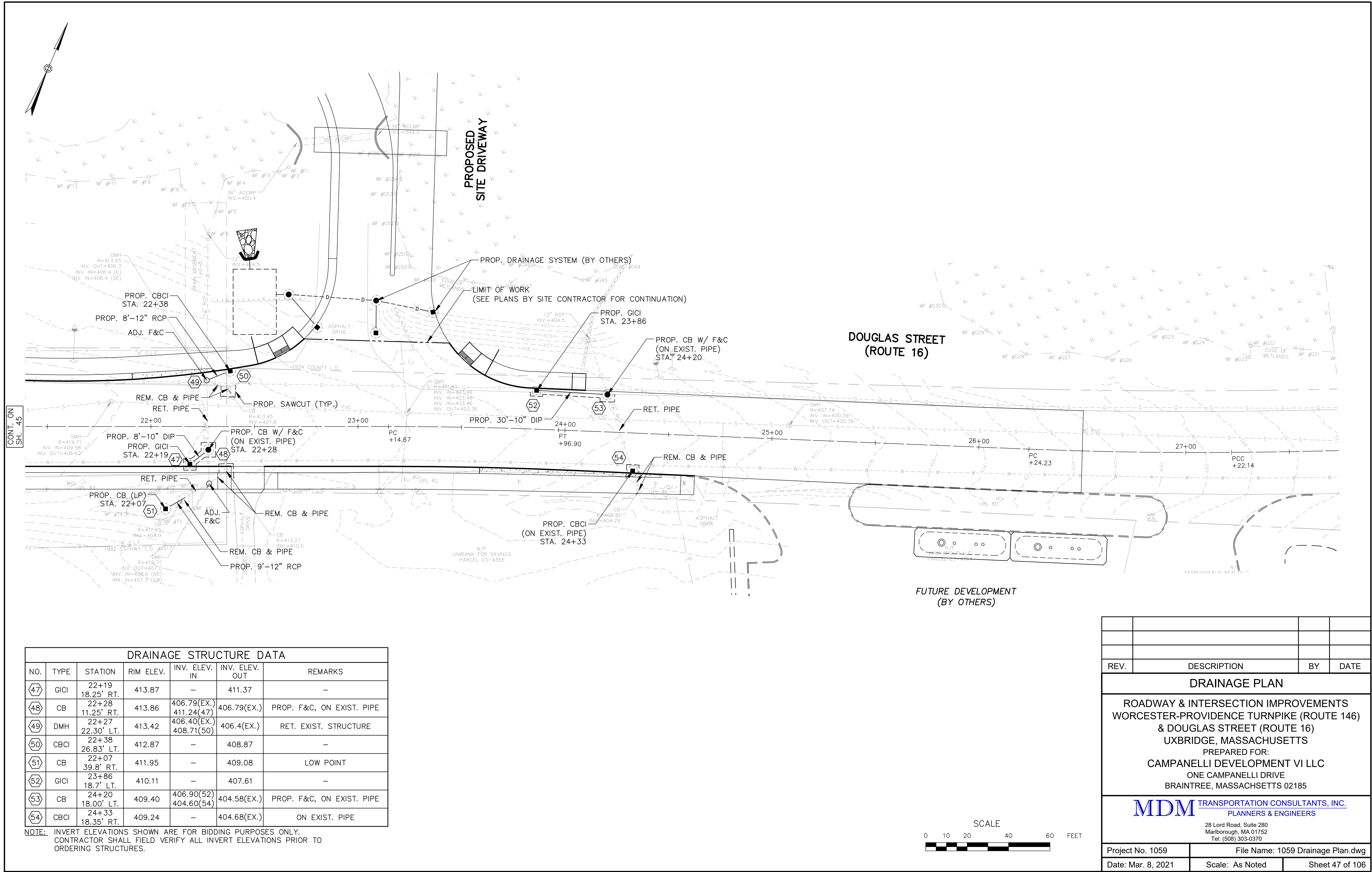
DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
32	DMH	16+68 47.89' LT.	424.76	416.47(EX.) 418.52(33)	416.37	ON EXIST. PIPE
33	CBCI	17+44 67.62' LT.	423.99	—	419.99	—
34	DMH	17+26 35.19' RT.	424.42	419.96(37) 418.60(38)	418.50	ON EXIST. PIPE
35	DMH	17+30 19.08' RT.	425.69	419.70(36)	419.6(EX.)	C.I.T. (CB TO DMH), PROP. F&C
36	CB	17+83 17.07' RT.	423.24	—	420.67	LOW POINT
37	CBCI	16+97 47.94' RT.	424.50	—	420.50	—
38	CB	3+69 37.95' RT.	422.40	—	419.28	LOW POINT
39	DMH	3+88 1.25' RT.	424.92	421.02(40)	420.92	ON EXIST. PIPE
40	CB	3+98 1.00' RT.	425.13	—	421.13	LOW POINT
41	CB	17+99 21.58' RT.	422.19	—	418.19	LOW POINT
42	DMH	18+35 3.00' LT.	422.38	417.31(41) 419.84(43)	417.21	—
43	CBCI	18+26 33.18' LT.	422.60	—	420.10	—
44	CBCI	18+46 33.71' RT.	421.73	—	417.73	—
45	DMH	18+87 21.18' RT.	420.84	416.95(44)	415.4(EX.)	C.I.T. (CB TO DMH), PROP. F&C
46	DMH	19+22 22.38' LT.	420.74	415.49(42)	414.95(EX.)	C.I.T. (CB TO DMH), PROP. F&C

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REV.	DESCRIPTION	BY	DATE
DRAINAGE PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Drainage Plan.dwg	
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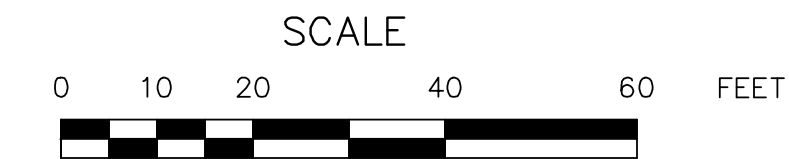


REV.	DESCRIPTION	BY	DATE
<h2>DRAINAGE PLAN</h2>			
<p>ROADWAY &amp; INTERSECTION IMPROVEMENTS          WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146)          &amp; DOUGLAS STREET (ROUTE 16)          UXBRIDGE, MASSACHUSETTS</p> <p>PREPARED FOR:          CAMPANELLI DEVELOPMENT VI LLC          ONE CAMPANELLI DRIVE          BRAINTREE, MASSACHSETTS 02185</p>			
 <p><b>MDM</b> <u>TRANSPORTATION CONSULTANTS, INC.</u>          PLANNERS &amp; ENGINEERS</p>			
<p>28 Lord Road, Suite 280          Marlborough, MA 01752          Tel: (508) 303-0370</p>			
Project No. 1059		File Name: 1059 Drainage Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	
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DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
47	GIC	22+19 18.25' RT.	413.87	—	411.37	—
48	CB	22+28 11.25' RT.	413.86	406.79(EX.) 411.24(47)	406.79(EX.)	PROP. F&C, ON EXIST. PIPE
49	DMH	22+27 22.30' LT.	413.42	406.40(EX.) 408.71(50)	406.4(EX.)	RET. EXIST. STRUCTURE
50	CBCI	22+38 26.83' LT.	412.87	—	408.87	—
51	CB	22+07 39.8' RT.	411.95	—	409.08	LOW POINT
52	GIC	23+86 18.7' LT.	410.11	—	407.61	—
53	CB	24+20 18.00' LT.	409.40	406.90(52) 404.60(54)	404.58(EX.)	PROP. F&C, ON EXIST. PIPE
54	CBCI	24+33 18.35' RT.	409.24	—	404.68(EX.)	ON EXIST. PIPE

NOTE: INVERT ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY.  
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ORDERING STRUCTURES.

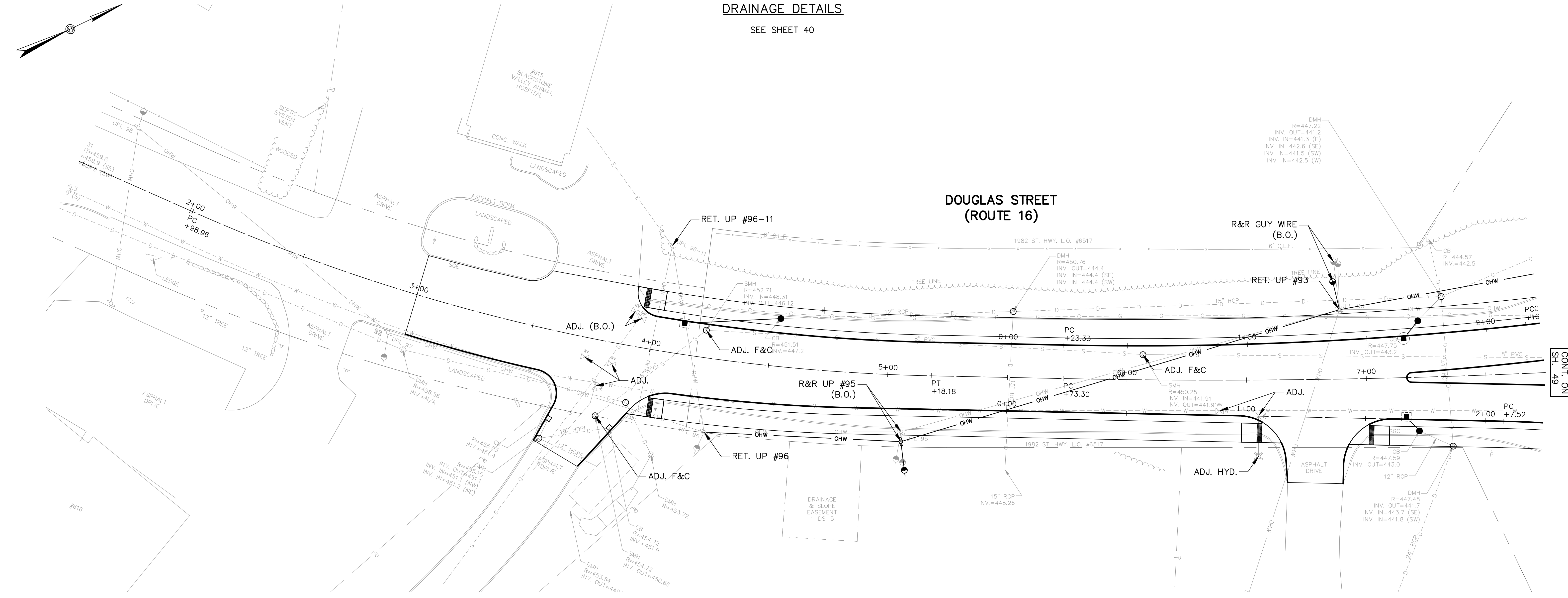


REV.	DESCRIPTION	BY	DATE
DRAINAGE PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Drainage Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 47 of 106

DRAINAGE DETAILS

SEE SHEET 40

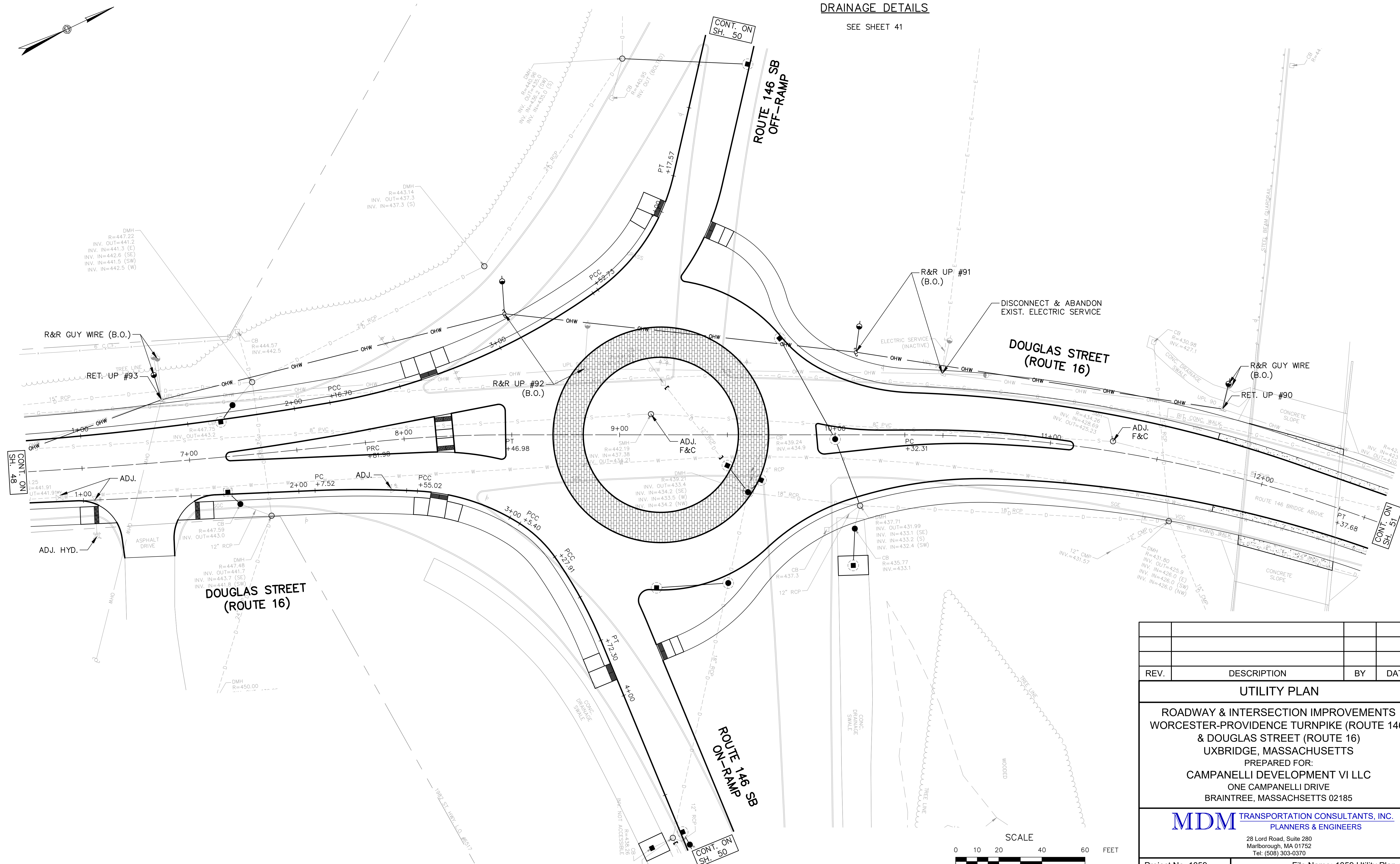
DOUGLAS STREET  
(ROUTE 16)



CONT. ON  
SH. 49

REV.	DESCRIPTION	BY	DATE
UTILITY PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Utility Plan.dwg	
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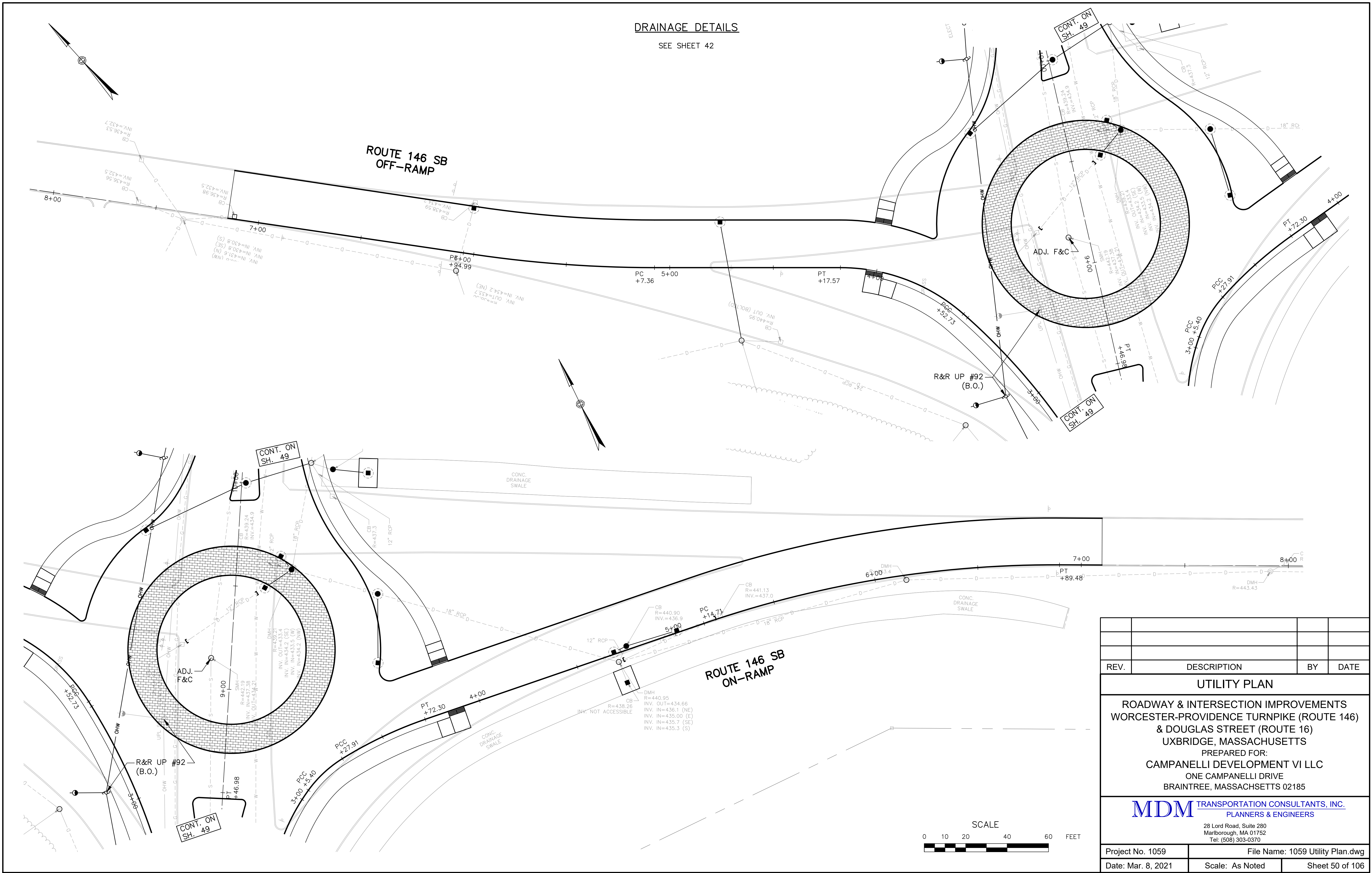


DRAINAGE DETAILS  
SEE SHEET 41

REV.	DESCRIPTION	BY	DATE
UTILITY PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Utility Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 49 of 106

DRAINAGE DETAILS

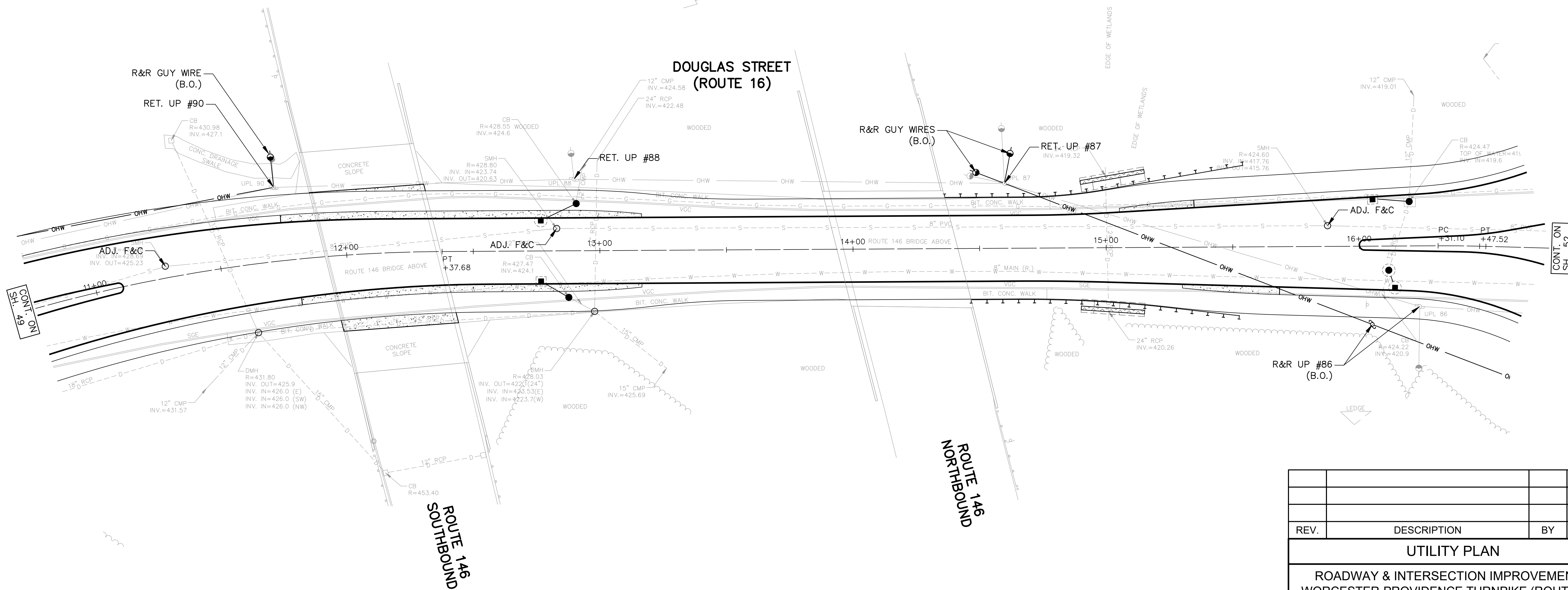
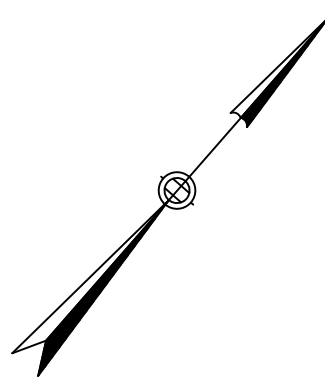
SEE SHEET 42



REV.	DESCRIPTION	BY	DATE
UTILITY PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS			
PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Utility Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 50 of 106

DRAINAGE DETAILS

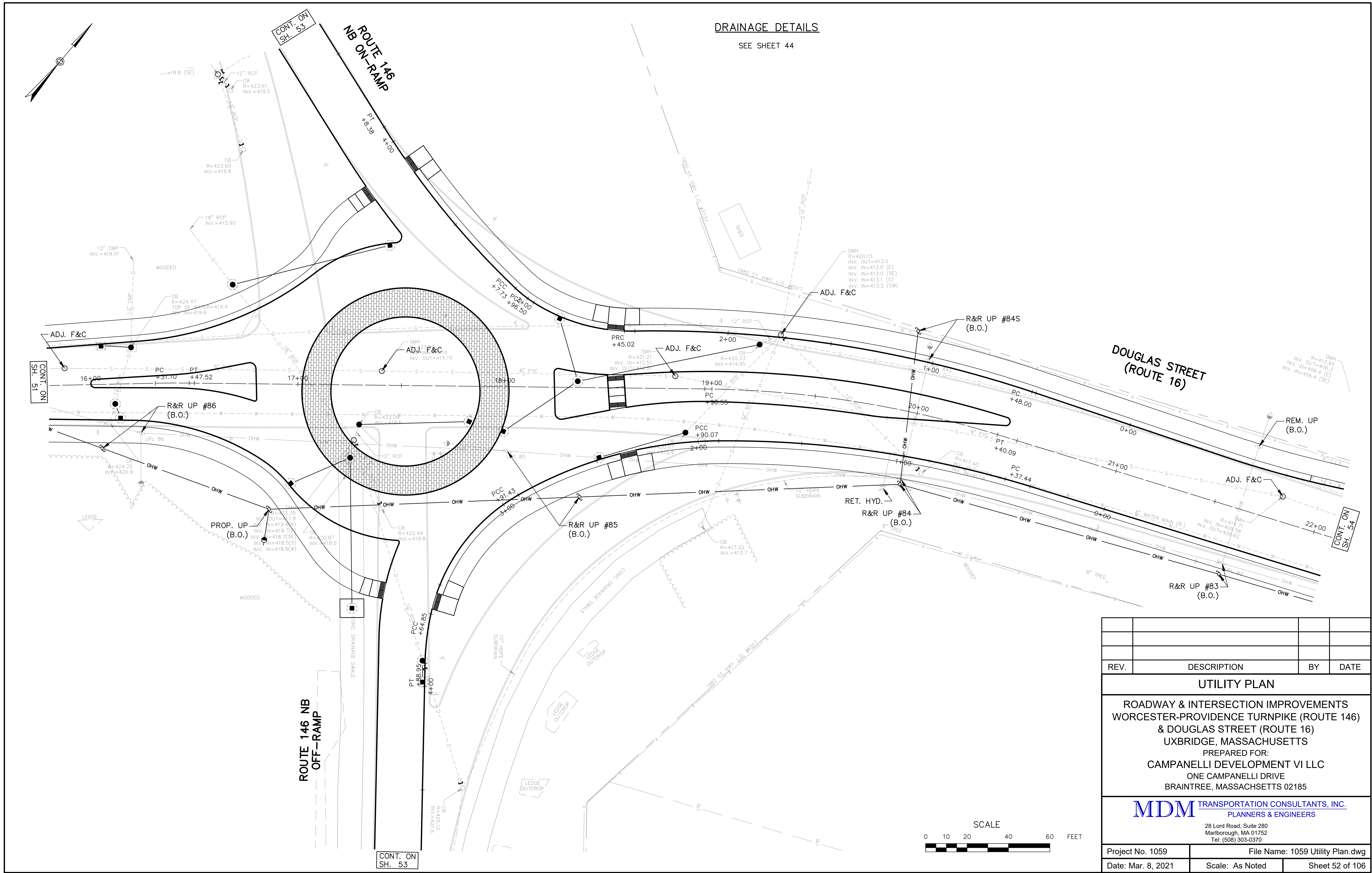
SEE SHEET 43



REV.	DESCRIPTION	BY	DATE
UTILITY PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Utility Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 51 of 106

DRAINAGE DETAILS

SEE SHEET 44



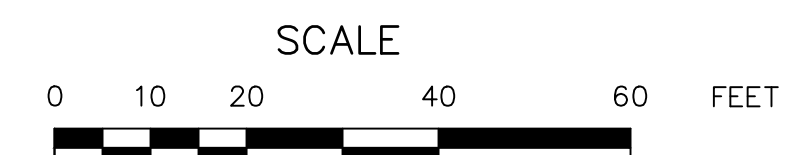
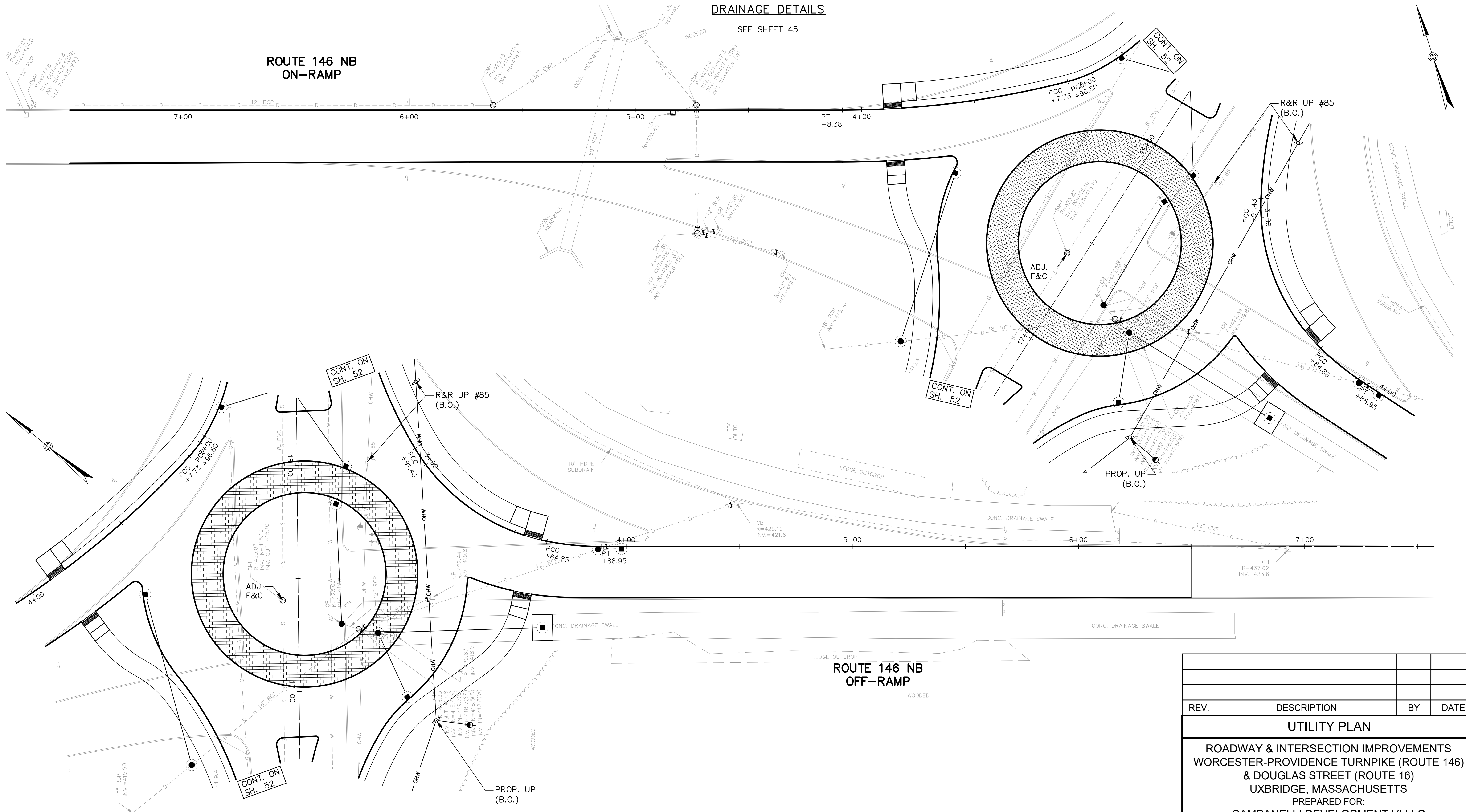
REV.	DESCRIPTION	BY	DATE
UTILITY PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Utility Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 52 of 106

# DRAINAGE DETAILS

SEE SHEET 45

ROUTE 146 NB  
ON-RAMP

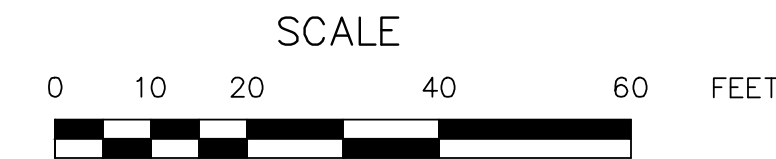
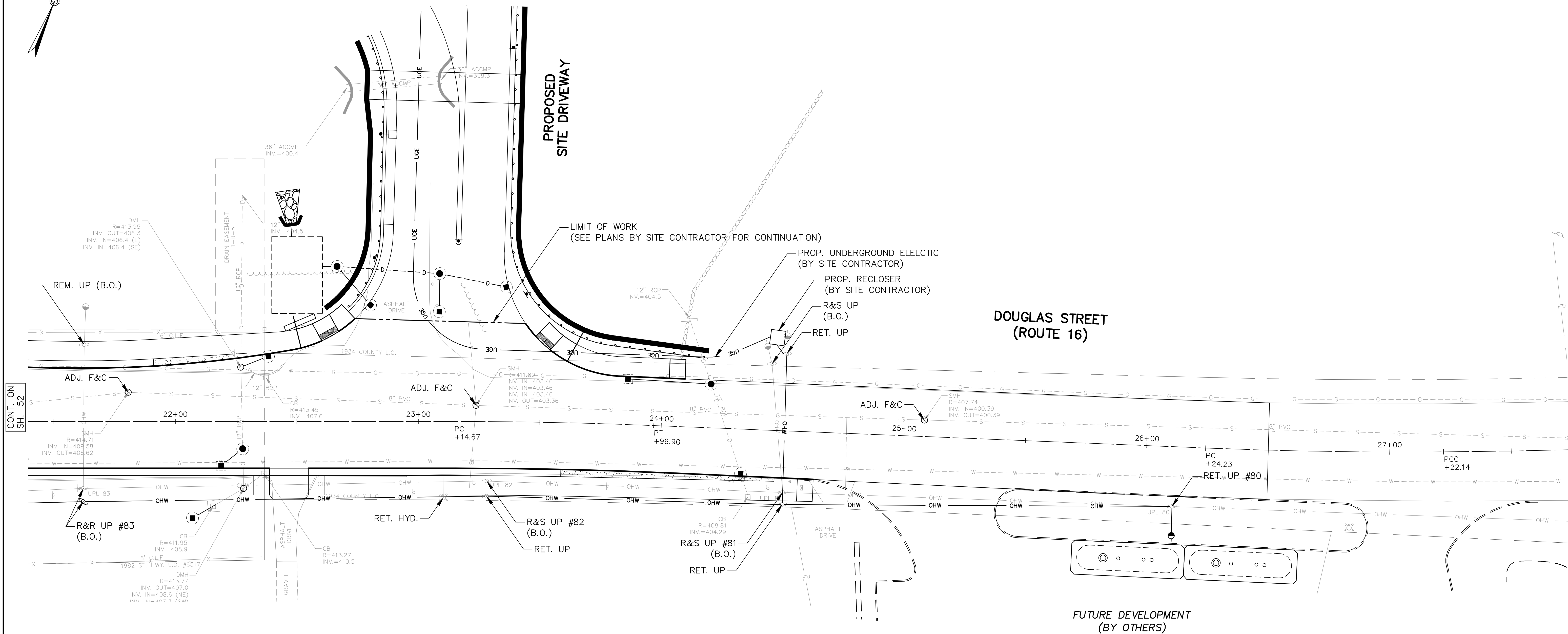
ROUTE 146 NB  
OFF-RAMP



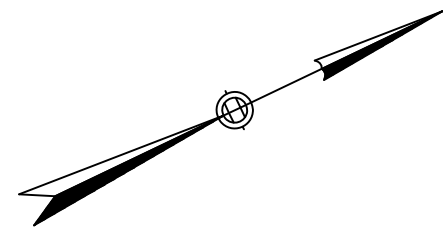
REV.	DESCRIPTION	BY	DATE
UTILITY PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS			
PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Utility Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 53 of 106

DRAINAGE DETAILS

SEE SHEET 46



REV.	DESCRIPTION	BY	DATE
UTILITY PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Utility Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 54 of 106



LP-6	LC1
STA. 9+10.62, 129.22' LT	
6'	III
35'	42K
CIRCUIT LC1-2	

LP-5	LC1
STA. 8+27.29, 49.25' LT	
6'	III
35'	42K
CIRCUIT LC1-2	

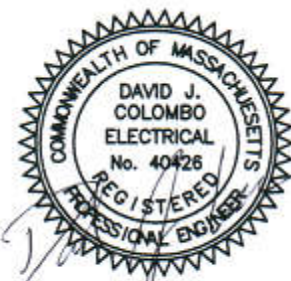
LP-1	LC1
STA. 9+97.81, 46.37' LT	
6'	III
35'	42K
CIRCUIT LC1-1	

PROP. HIGHWAY LIGHTING LOAD CENTER ON CONCRETE FOUNDATION (LC1)  
PROP. 3" ELEC. CONDUIT TYPE NM W/ 3C #3/0 AWG WIRE W/ GROUND  
TO UTILITY POLE W/ GALVANIZED RIGID STEEL RISER & SWEEP

LP-2	LC1
STA. 9+85.57, 54.47' RT	
6'	III
35'	42K
CIRCUIT LC1-1	

LP-3	LC1
STA. 8+74.83, 97.48' RT	
6'	III
35'	42K
CIRCUIT LC1-1	

LP-4	LC1
STA. 7+90.19, 38.99' RT	
6'	III
35'	42K
CIRCUIT LC1-2	



02-15-2022

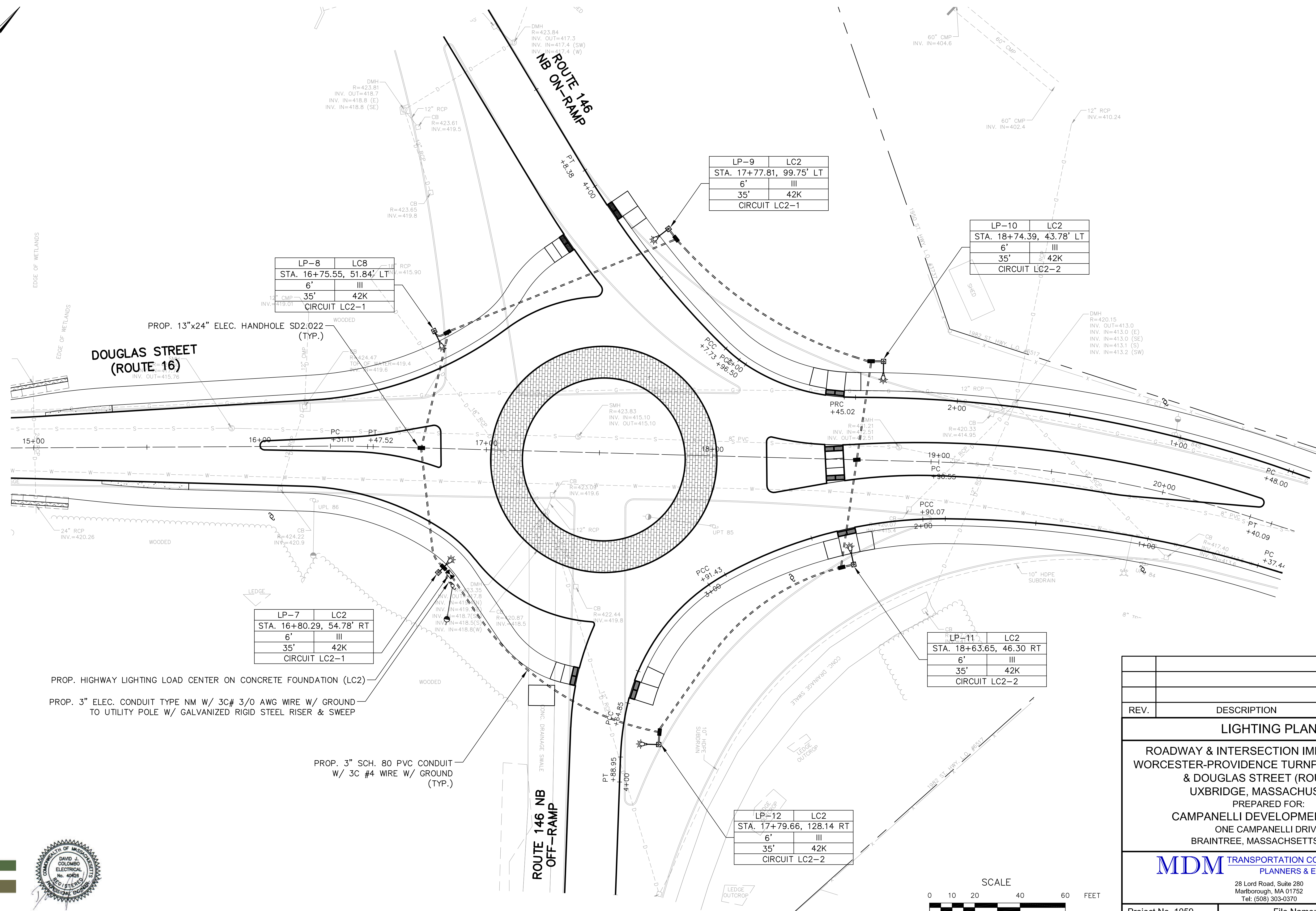
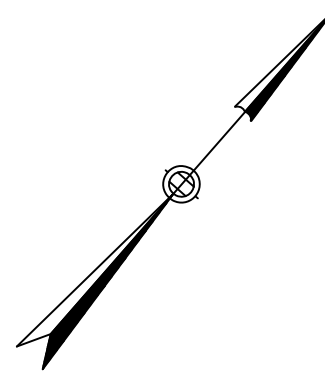
ROUTE 146 SB  
OFF-RAMP

DOUGLAS STREET  
(ROUTE 16)

ROUTE 146 SB  
ON-RAMP



REV.	DESCRIPTION	BY	DATE
LIGHTING PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Lighting Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 55 of 106



LP-8	LC8
STA. 16+75.55, 51.84' LT	
6'	III
35'	42K
CIRCUIT LC2-1	

LP-9	LC2
STA. 17+77.81, 99.75' LT	
6'	III
35'	42K
CIRCUIT LC2-1	

LP-10	LC2
STA. 18+74.39, 43.78' LT	
6'	III
35'	42K
CIRCUIT LC2-2	

LP-7	LC2
STA. 16+80.29, 54.78' RT	
6'	III
35'	42K
CIRCUIT LC2-1	

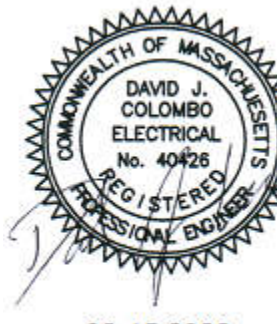
LP-11	LC2
STA. 18+63.65, 46.30 RT	
6'	III
35'	42K
CIRCUIT LC2-2	

LP-12	LC2
STA. 17+79.66, 128.14 RT	
6'	III
35'	42K
CIRCUIT LC2-2	

PROP. HIGHWAY LIGHTING LOAD CENTER ON CONCRETE FOUNDATION (LC2)

PROP. 3" ELEC. CONDUIT TYPE NM W/ 3C# 3/0 AWG WIRE W/ GROUND TO UTILITY POLE W/ GALVANIZED RIGID STEEL RISER & SWEEP

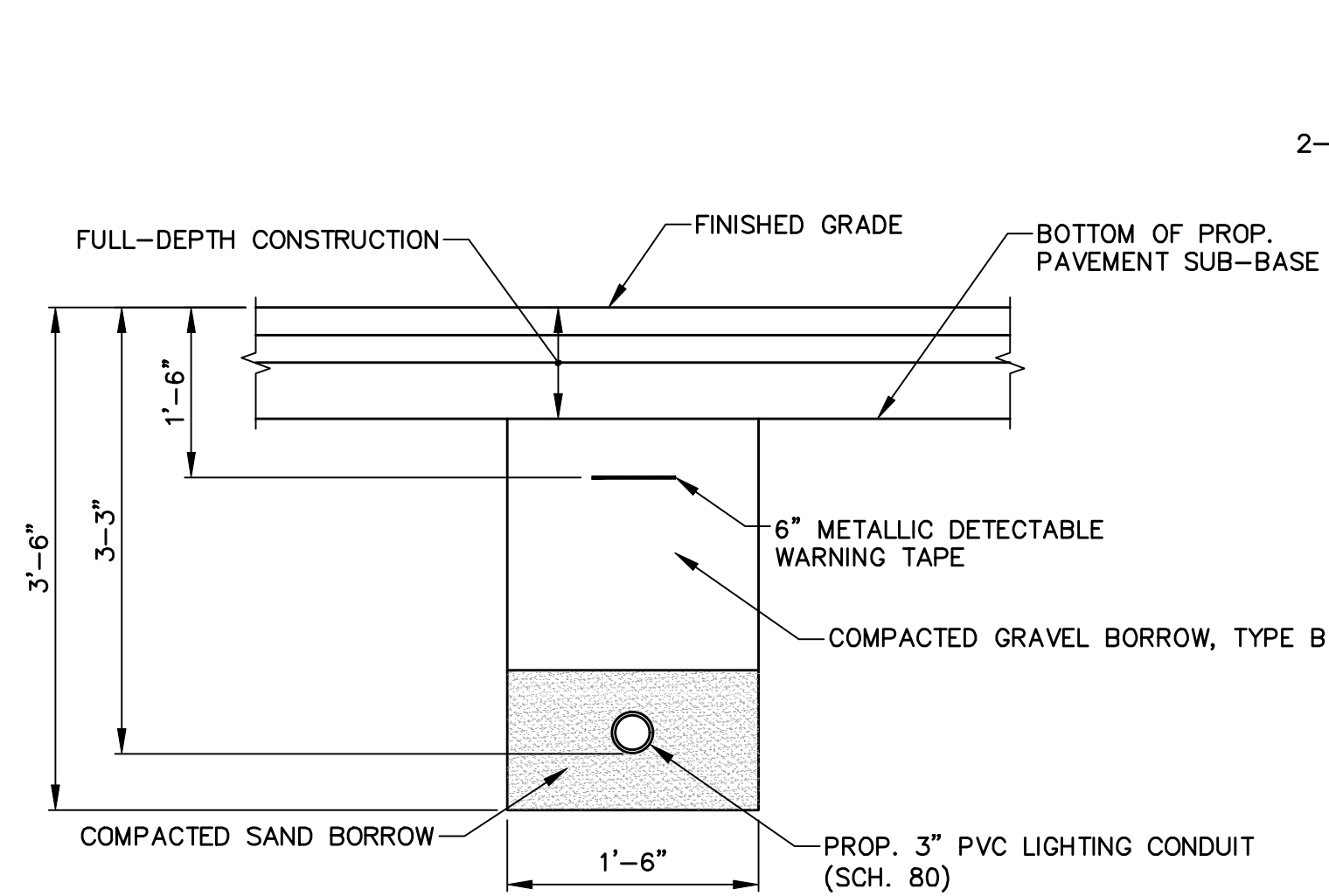
PROP. 3" SCH. 80 PVC CONDUIT W/ 3C #4 WIRE W/ GROUND (TYP.)



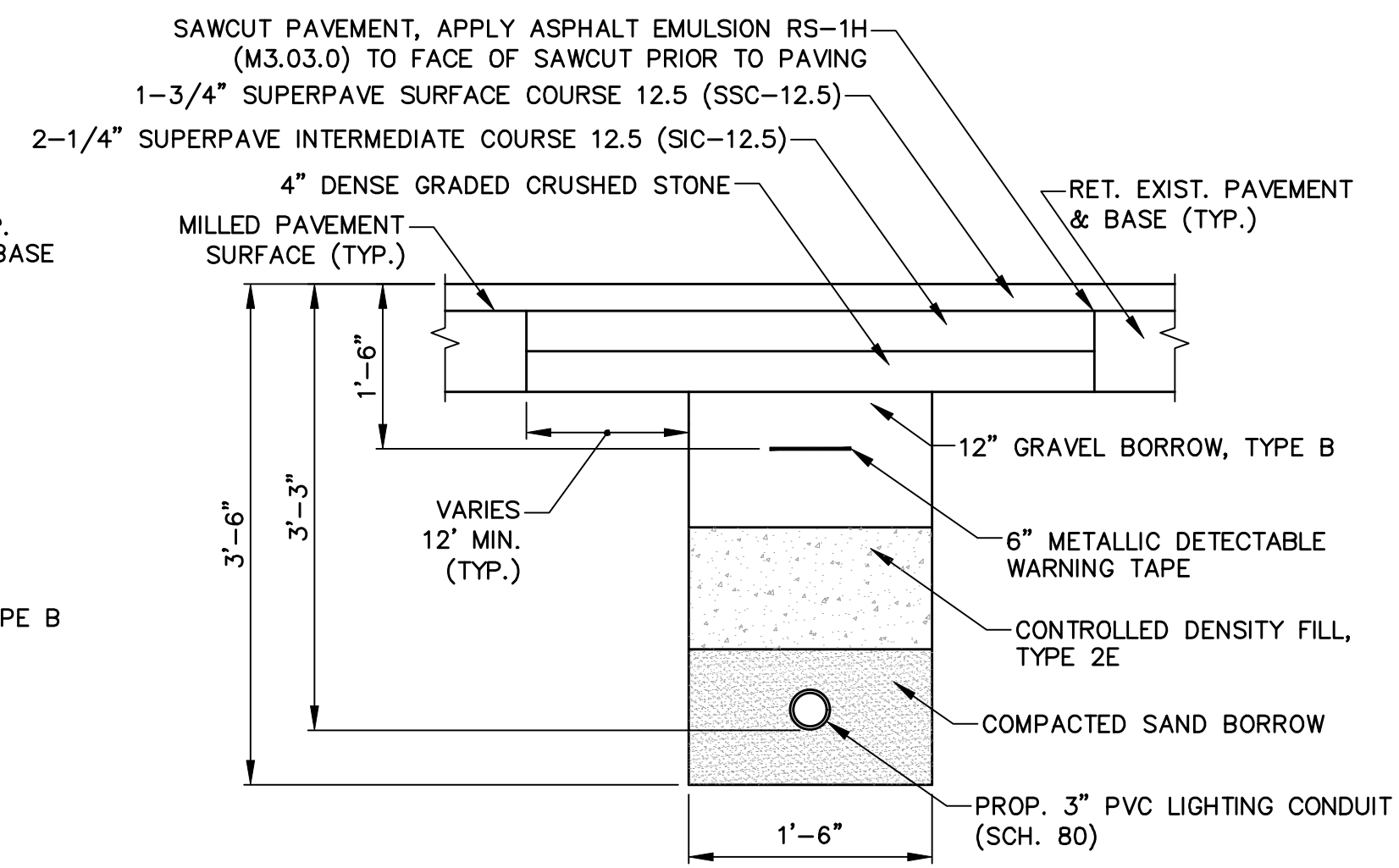
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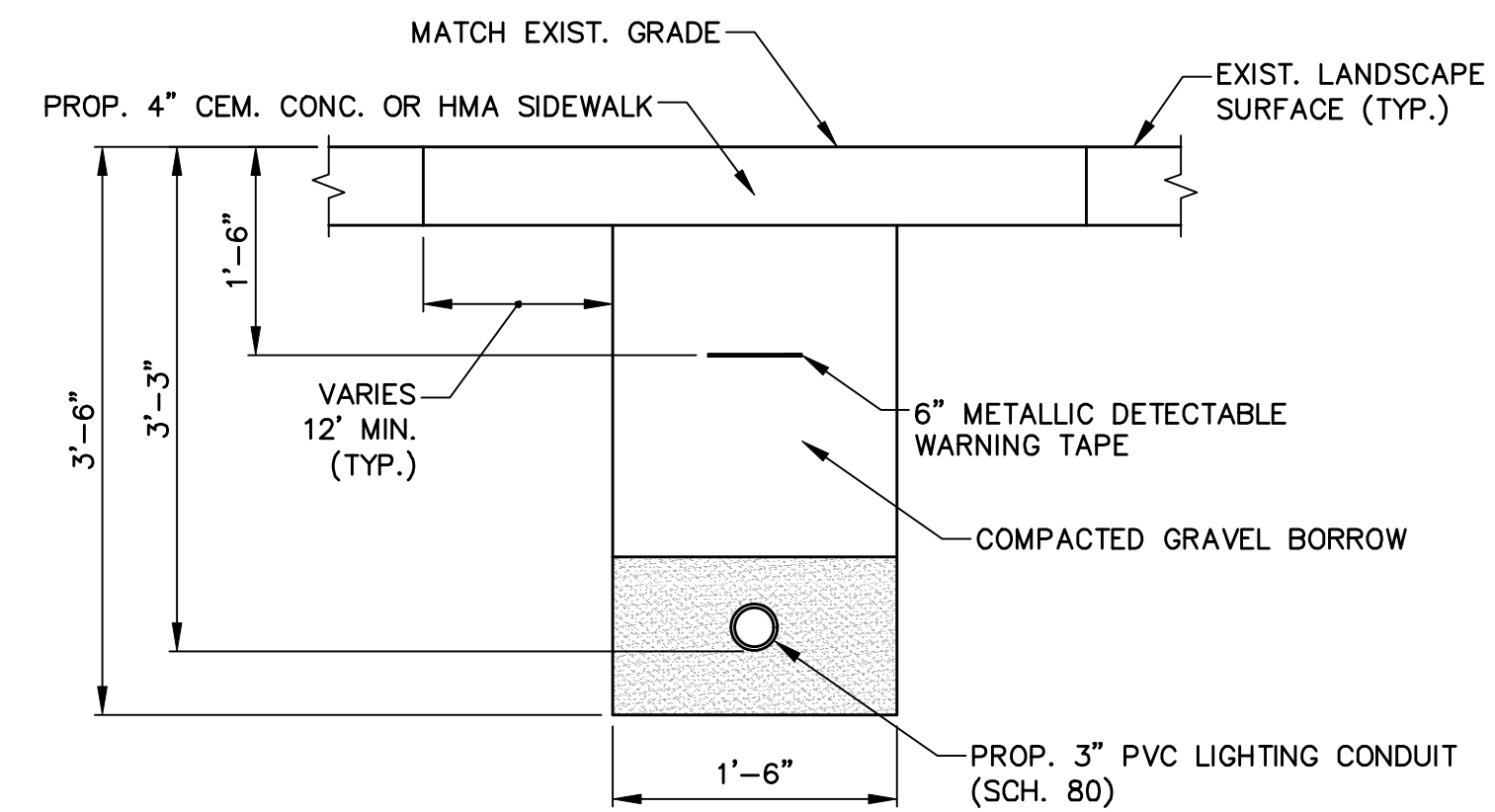
REV.	DESCRIPTION	BY	DATE
LIGHTING PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Lighting Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 56 of 106



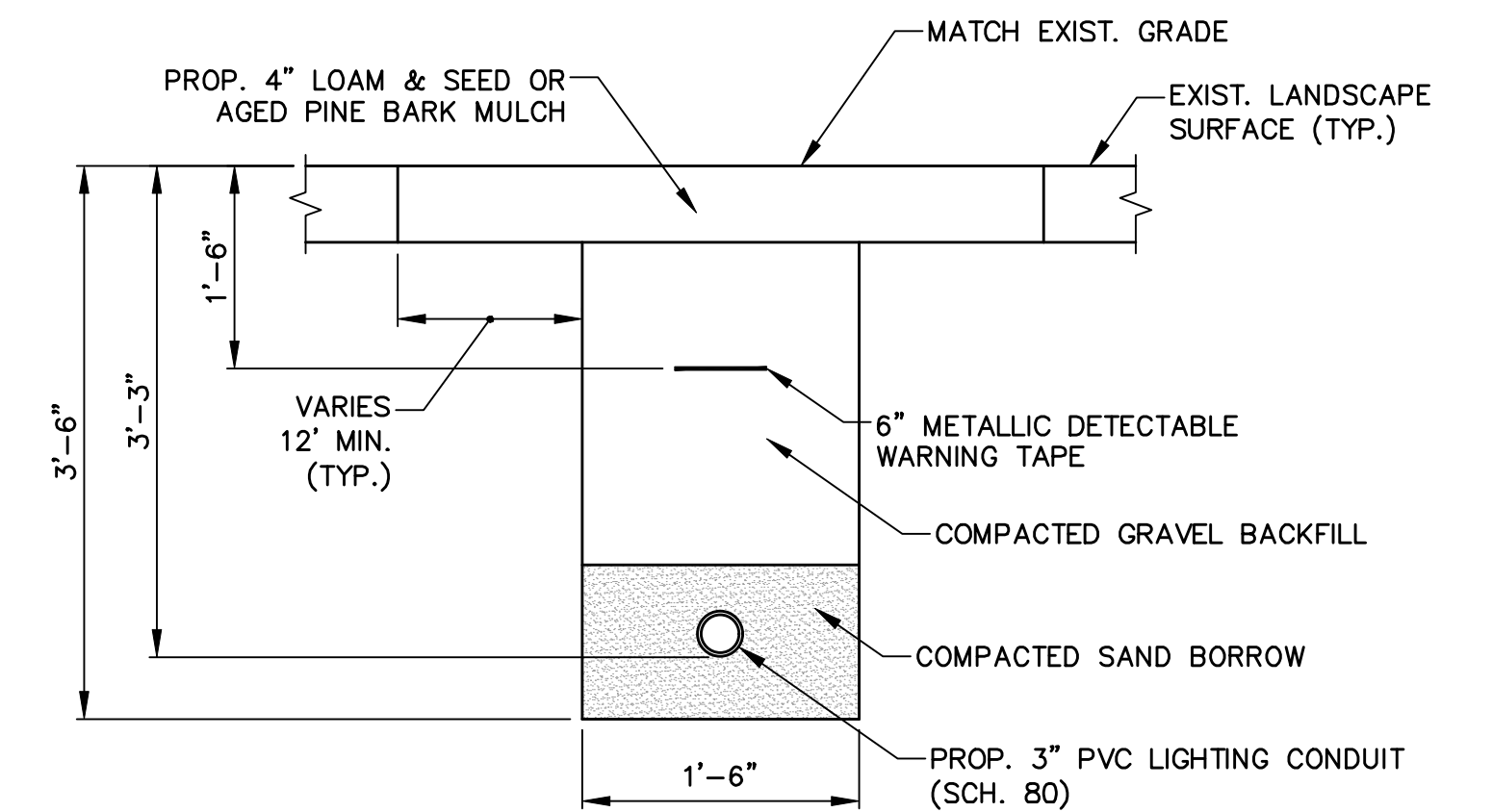
**DETAIL FOR CONDUIT UNDER ROADWAY OR DRIVEWAY  
IN FULL-DEPTH CONSTRUCTION AREAS**  
NOT TO SCALE



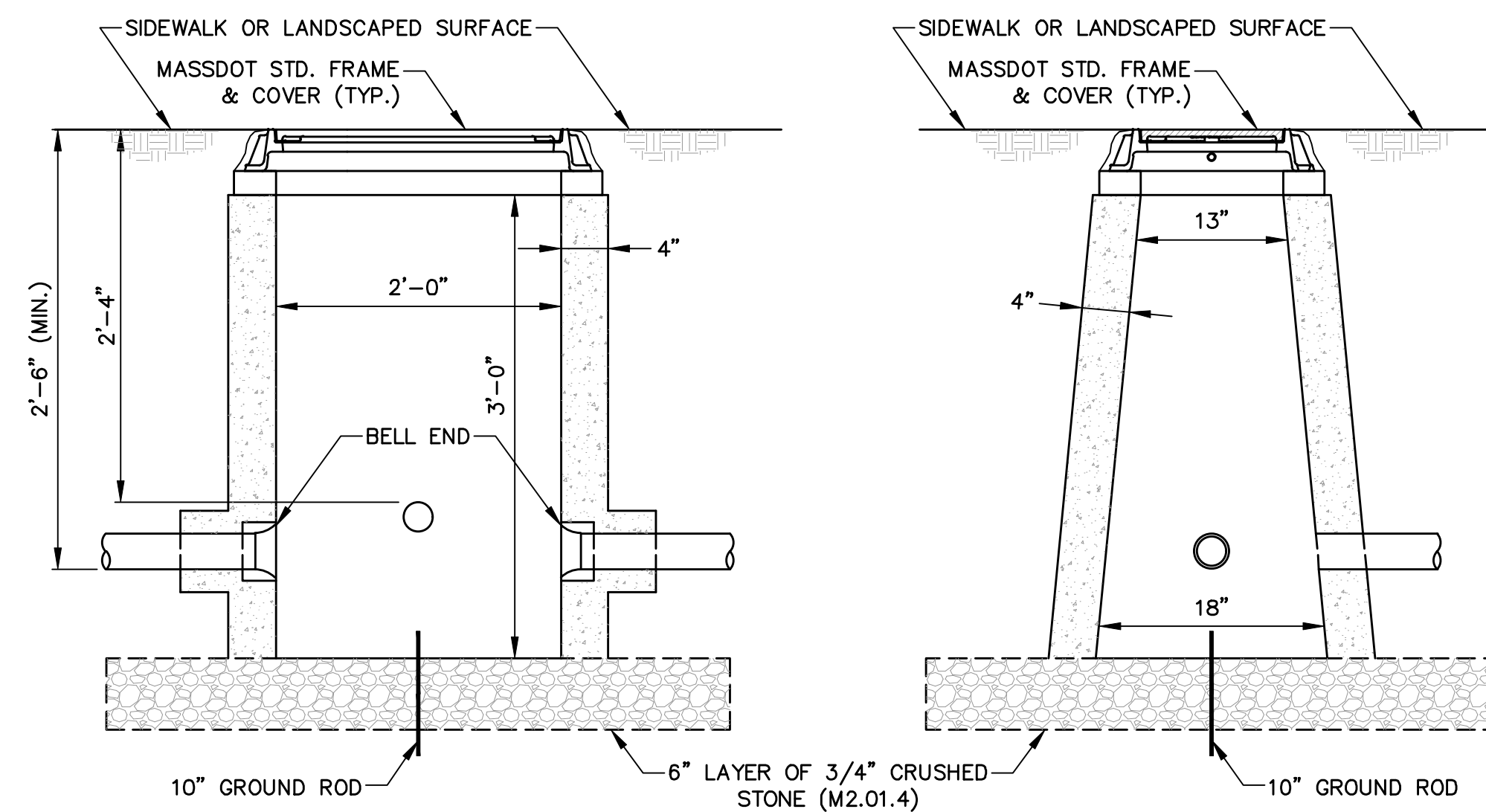
**DETAIL FOR CONDUIT UNDER ROADWAY  
IN MILLING & RESURFACING AREAS**  
NOT TO SCALE



**DETAIL FOR CONDUIT UNDER  
CEMENT CONCRETE WHEELCHAIR RAMP OR HMA SIDEWALK**  
NOT TO SCALE



**DETAIL FOR CONDUIT UNDER LANDSCAPED AREAS**  
NOT TO SCALE

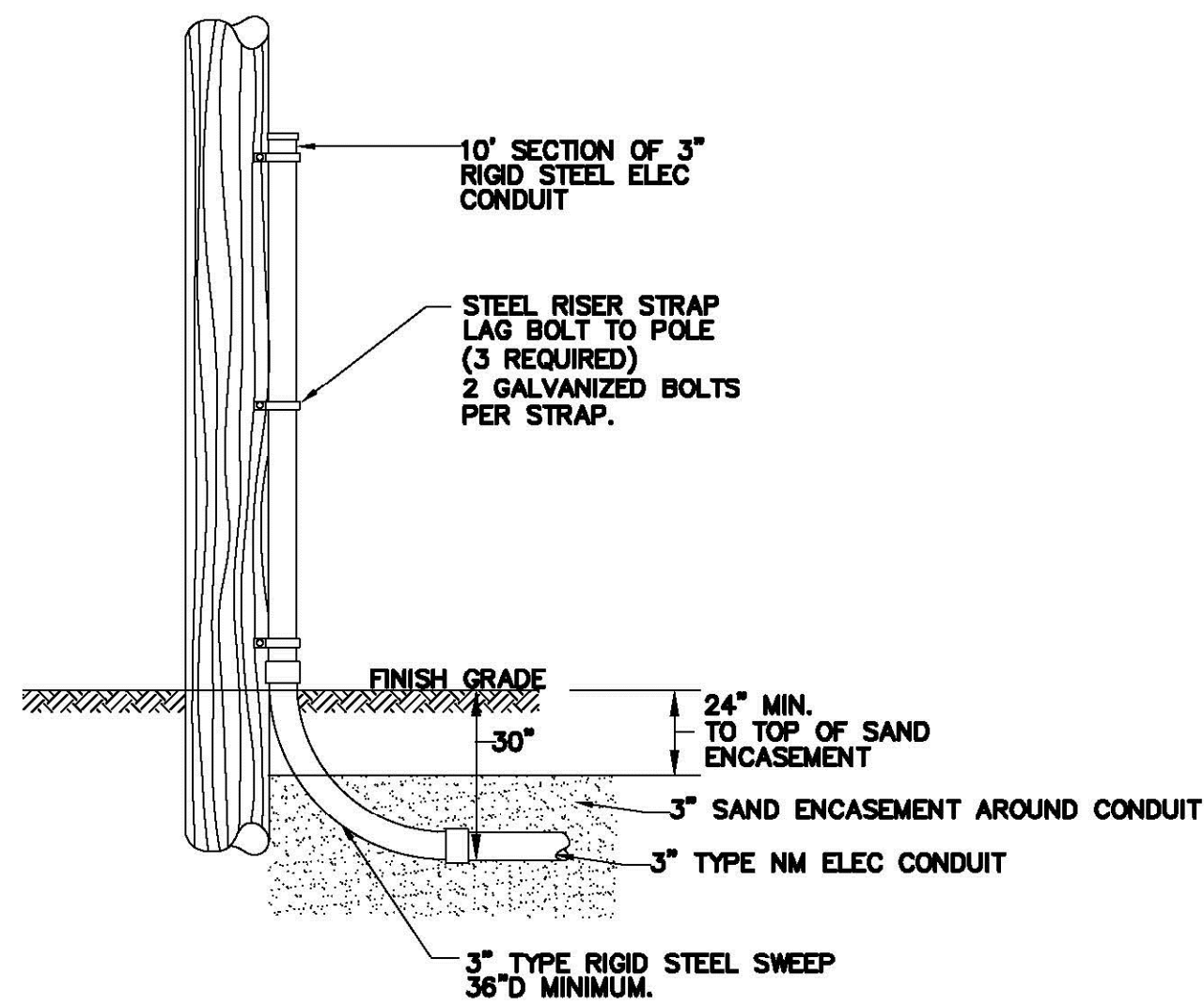


**DETAIL FOR 24"x13"x36" ELECTRIC HANDHOLE**  
(MASSDOT STD. DWGS. SD2-022)  
NOT TO SCALE

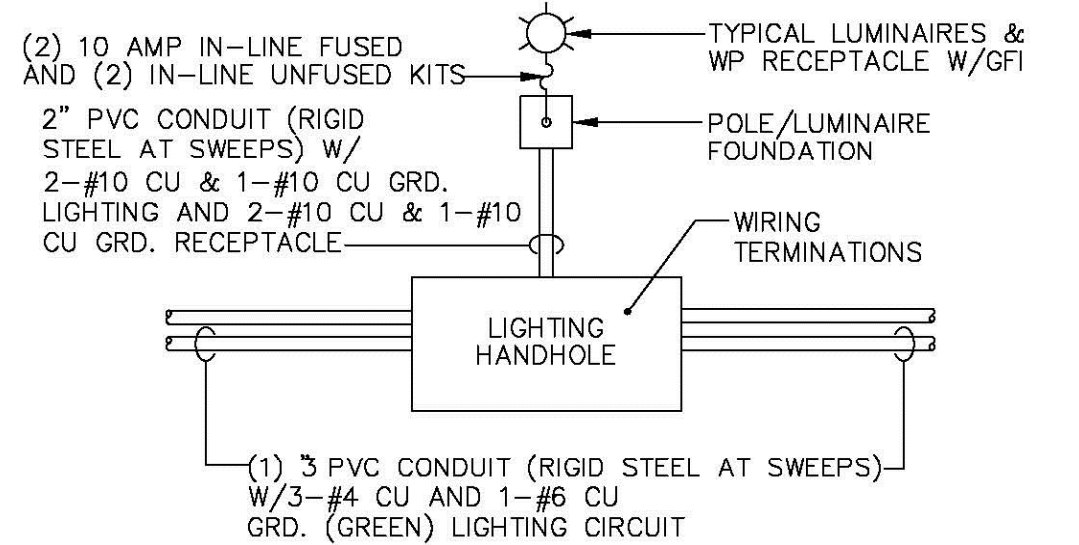
REV.	DESCRIPTION	BY	DATE
<b>LIGHTING DETAILS</b>			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Lighting Details.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 57 of 106



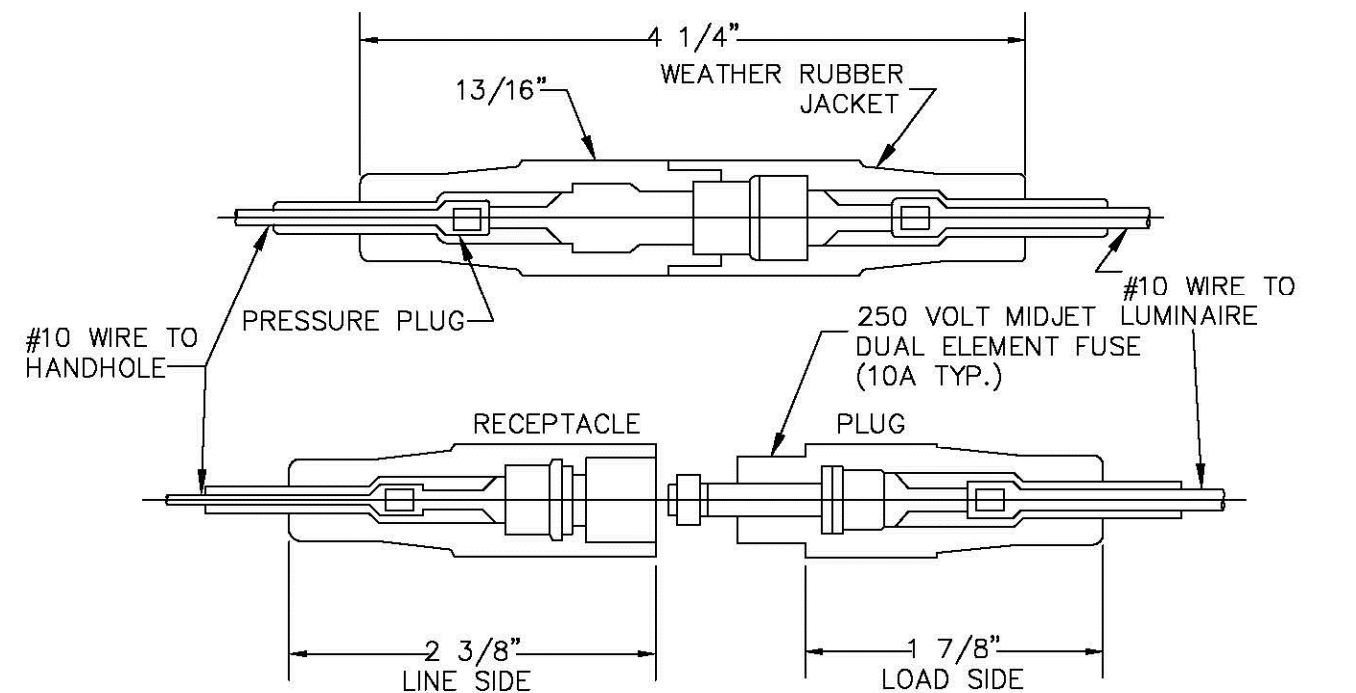
02-15-2022



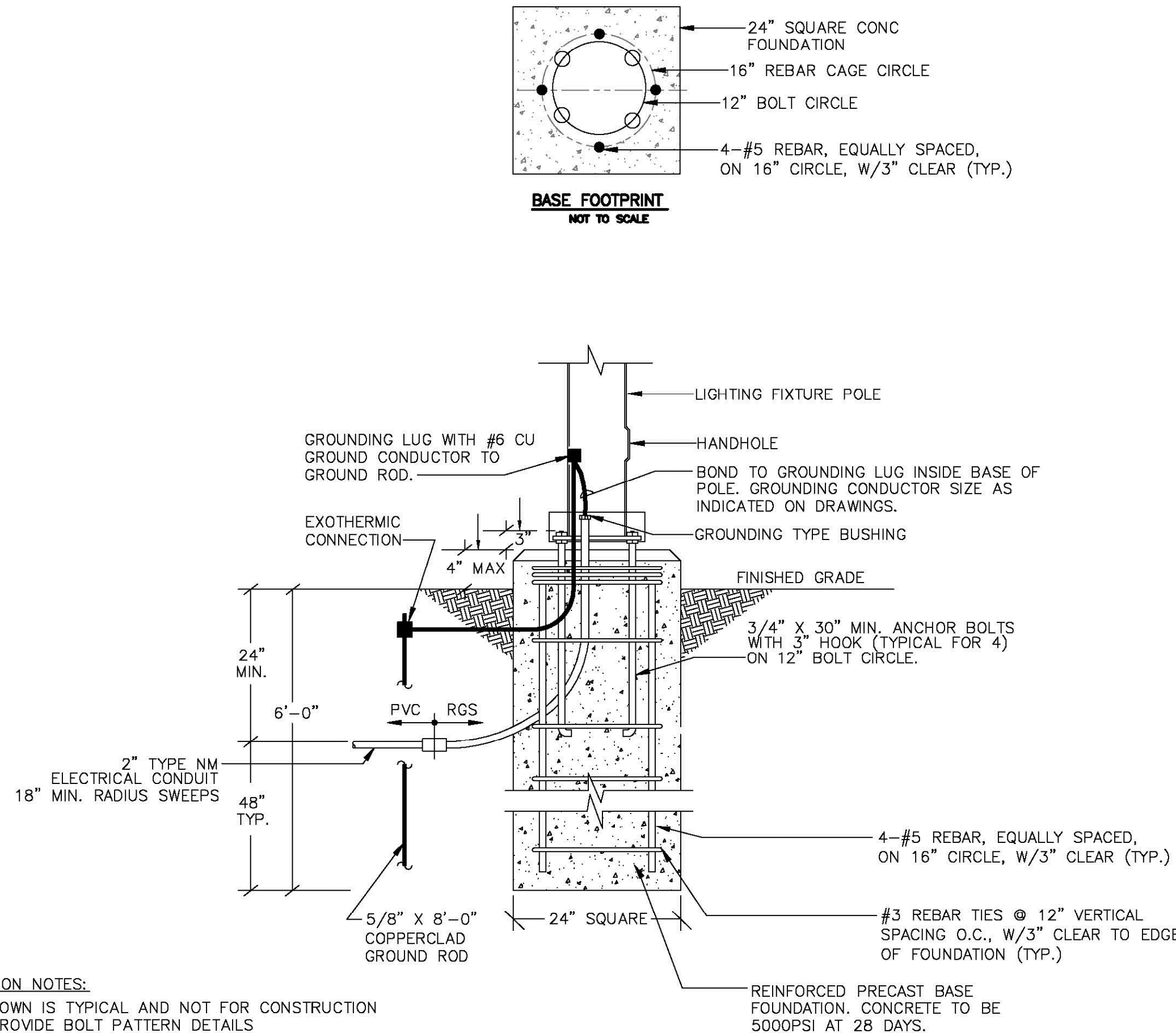
TYPICAL UTILITY  
RISER POLE DETAIL  
NOT TO SCALE



TYPICAL HANDHOLE/CONDUIT DETAIL  
NOT TO SCALE

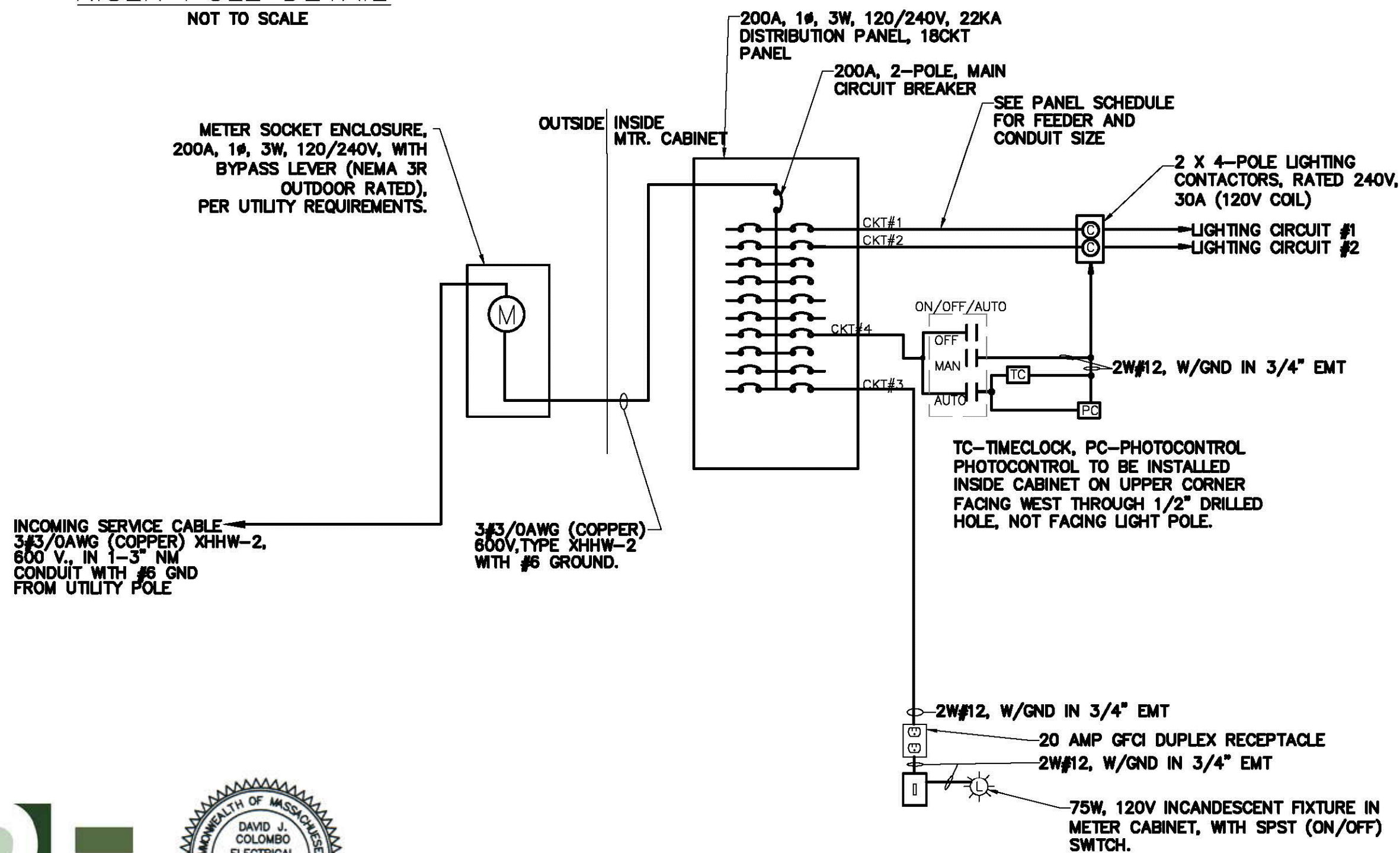


FUSED DISCONNECTING DEVICE  
(LOCATED IN HANDHOLE AT BASE OF POLE)  
NOT TO SCALE



- LIGHT POLE FOUNDATION NOTES:
- BOLT PATTERN SHOWN IS TYPICAL AND NOT FOR CONSTRUCTION CONTRACTOR TO PROVIDE BOLT PATTERN DETAILS BASED ON SELECTED MANUFACTURER.
  - PROVIDE REBAR DETAIL FROM PRECAST CONCRETE VENDOR FOR APPROVAL.
  - CONDUIT LOCATIONS SHOWN ARE TYPICAL.
  - THE LIGHT POLE FOUNDATIONS SHALL BE SITUATED IN THE SIDEWALK SUCH THAT THE MINIMUM UNOBSTRUCTED PEDESTRIAN ACCESS ROUTE OF 36" IS PROVIDED.

LIGHT POLE FOUNDATION DETAIL  
NOT TO SCALE



LIGHTING LOAD CENTER  
ELECTRICAL RISER DETAIL  
NOT TO SCALE



02-15-2022

ELECTRICAL INSTALLATION NOTES:

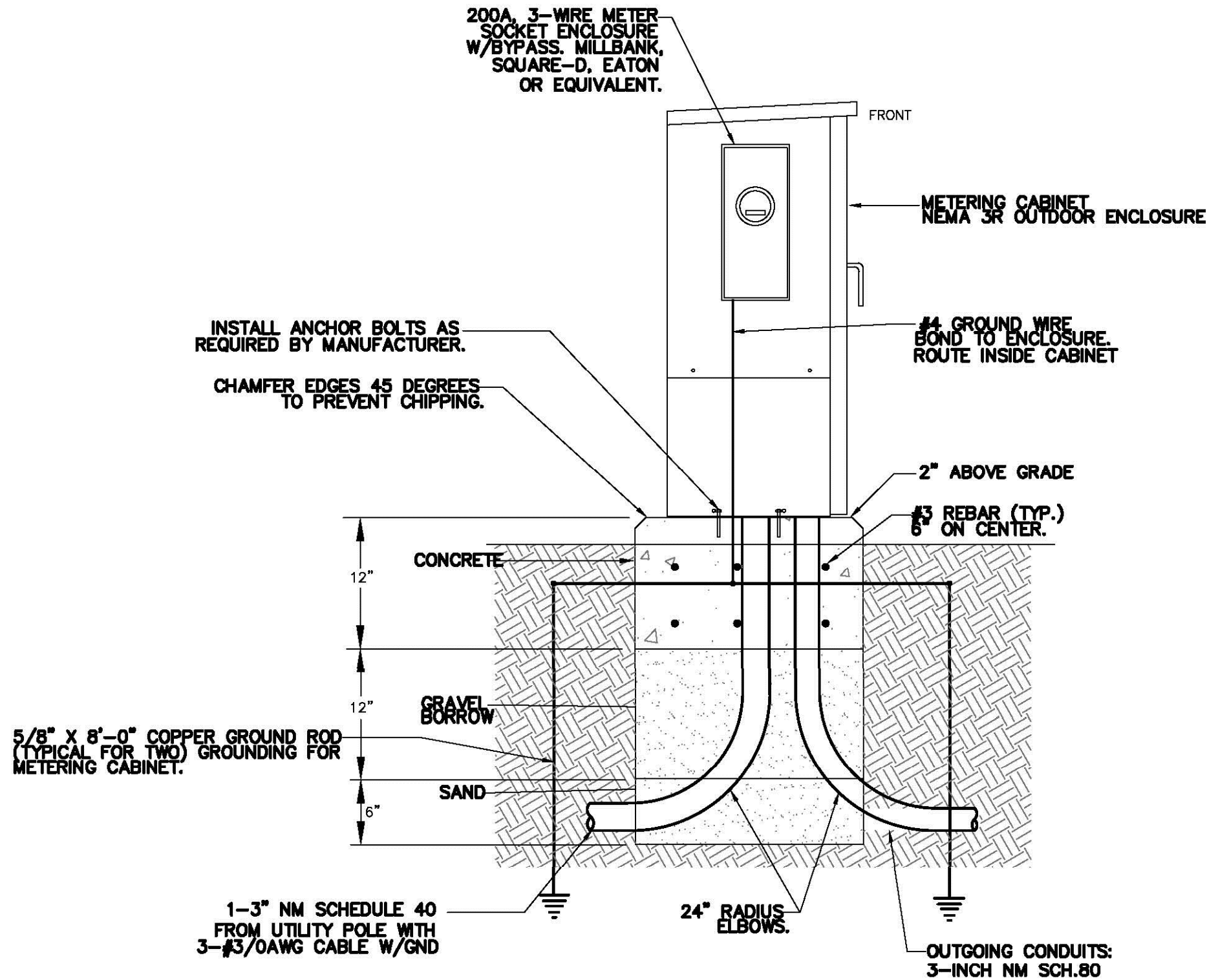
- THIS DRAWING IS BASED ON INFORMATION PROVIDED BY OTHERS THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, DEVICES, MATERIALS AND EQUIPMENT PRIOR TO MAKING ANY MODIFICATIONS OR ADDITIONS.
- ALL MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS OF ANSI, NEMA, OSHA, UL NFPA-70, AND THE MASS ELECTRICAL CODE WITH REGARDS TO MATERIAL, DESIGN, CONSTRUCTION AND TESTING.
- CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO ANY EXCAVATION.
- CONTRACTOR SHALL INSPECT SITE AND FOLLOW ALL DIG SAFE MARKINGS. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO EXCAVATION.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITIONS.
- CONTRACTOR TO PERFORM ALL WORK AS SHOWN.
- ALL WIRING ON THIS PROJECT SHALL BE INDIVIDUAL CONDUCTORS. ALL GROUND WIRES SHALL BE INSULATED AND MARKED. AS OPPOSED TO BARE.

REV.	DESCRIPTION	BY	DATE
LIGHTING DETAILS			
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MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Lighting Details.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 58 of 106

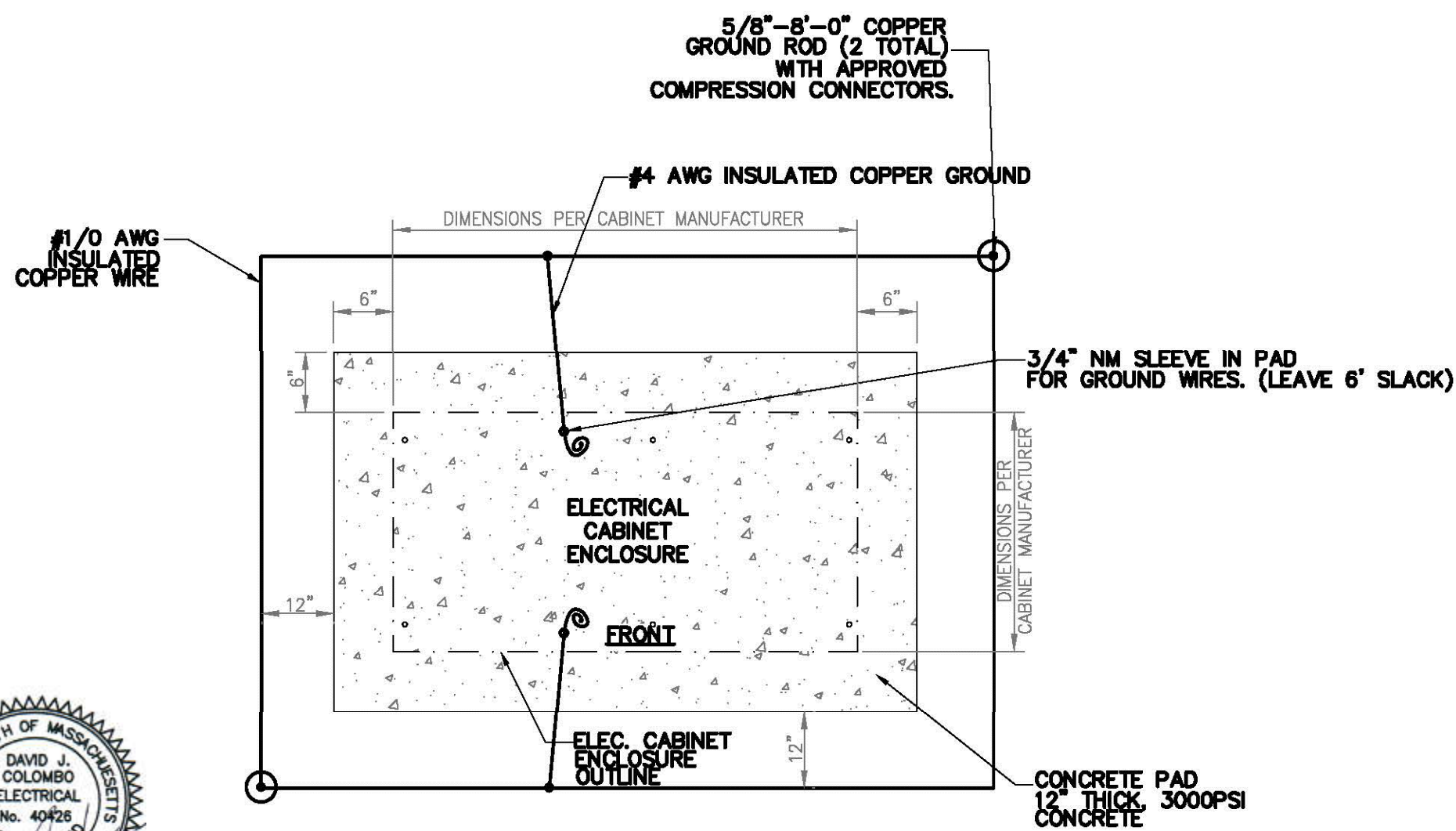
NEW DISTRIBUTION PANEL SCHEDULE						
PHASE: 1		WIRES: 3	VOLTAGE: 120/240V	MAINS: 200A MCB		
CIRCUIT	FRAME	BREAKER	POLES(N-NEUTRAL)	TRIP	DESCRIPTION OF LOAD	REMARKS
M	200	2P	200		MAIN CIRCUIT BREAKER	3W#3/0AWG & #6 GND
1	20	2P	20		NEW LIGHTING CIRCUIT #1	3W#4AWG & #4 GND
2	20	2P	20		NEW LIGHTING CIRCUIT #2	3W#4AWG & #4 GND
3	20	1P	20		RECEPTACLE IN CABINET	2W#12AWG & #12 GND
4	20	1P	20		ON/OFF/AUTO CONTROL IN CABINET	2W#12AWG & #12 GND
5	20	1P	20		TIMECLOCK 120VAC POWER	2W#12AWG & #12 GND
6						
7						
8						

\*PANEL SCHEDULE IS TYPICAL OF TWO (2) LIGHTING CABINETS

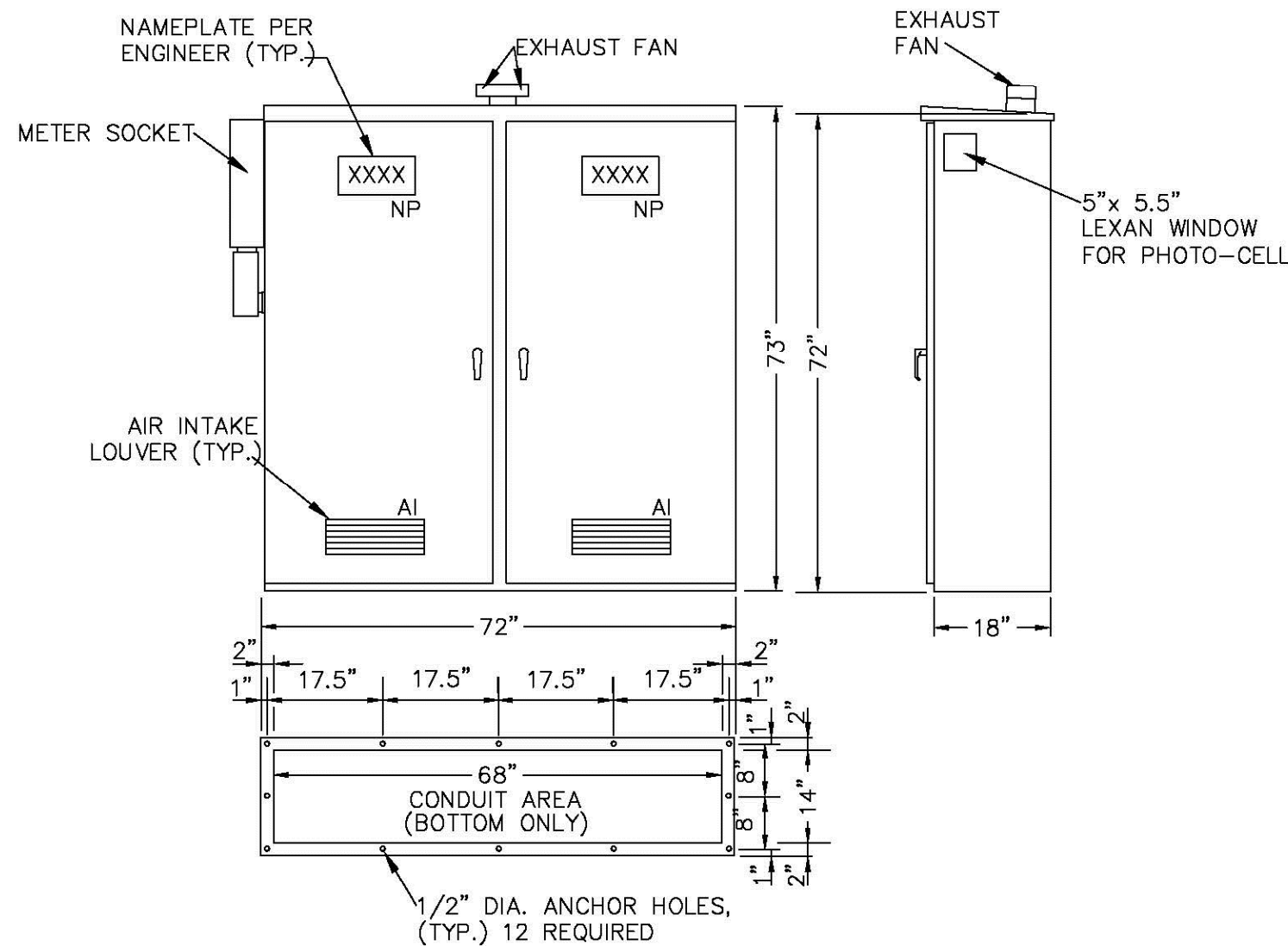
ELECTRICAL PANEL SCHEDULE



LIGHTING LOAD CENTER DETAIL  
NOT TO SCALE

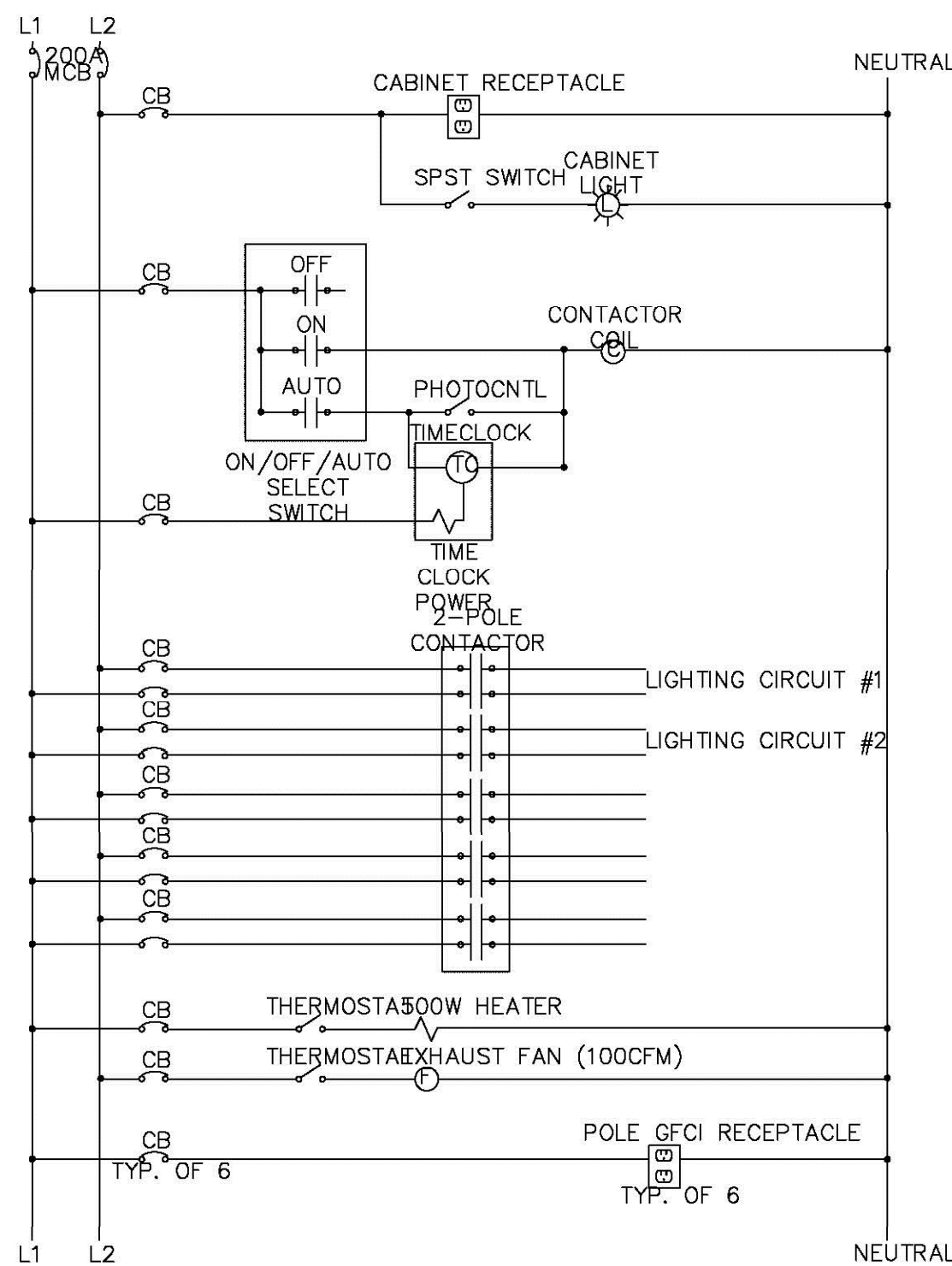


ELECTRICAL CABINET FOUNDATION PLAN  
NOT TO SCALE

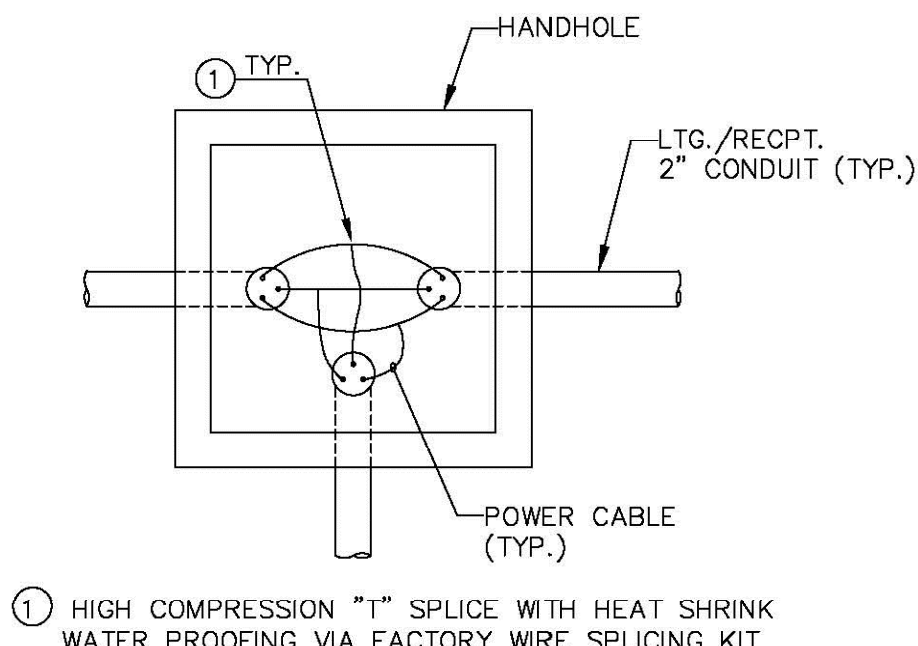
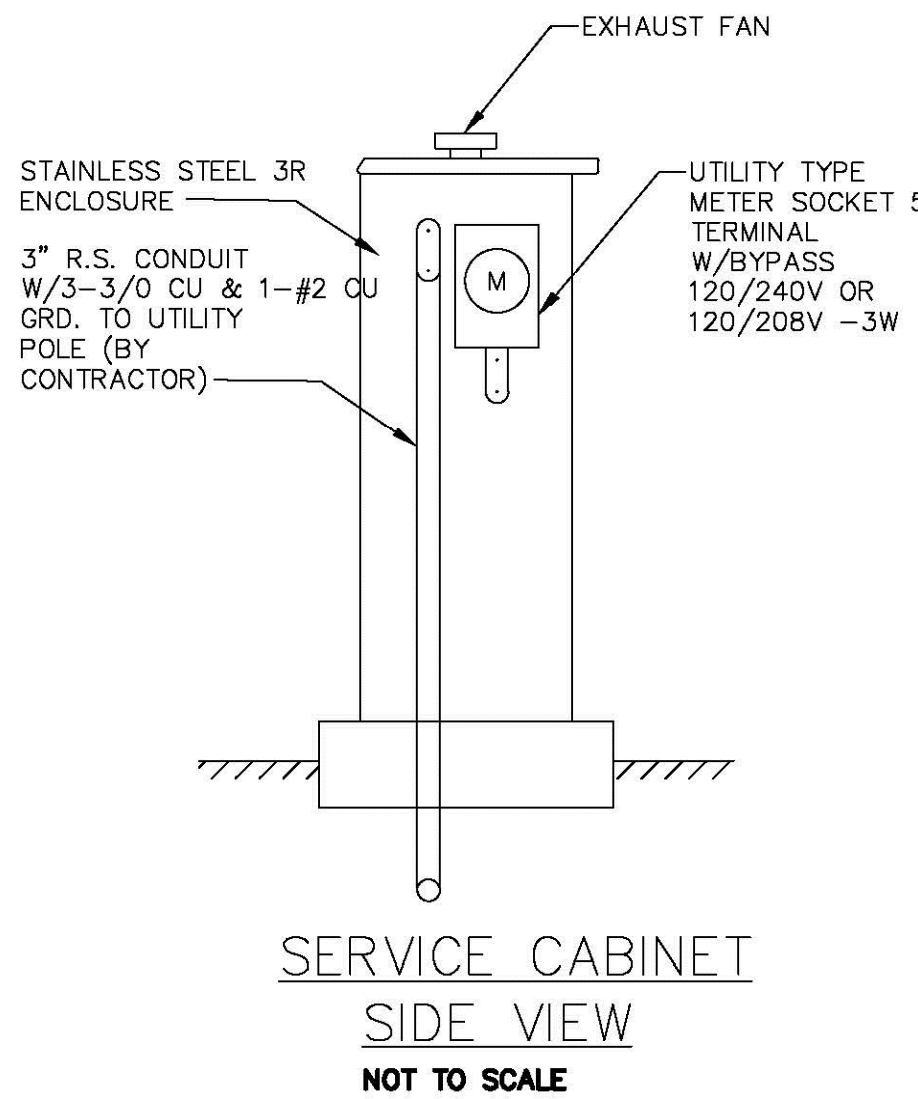
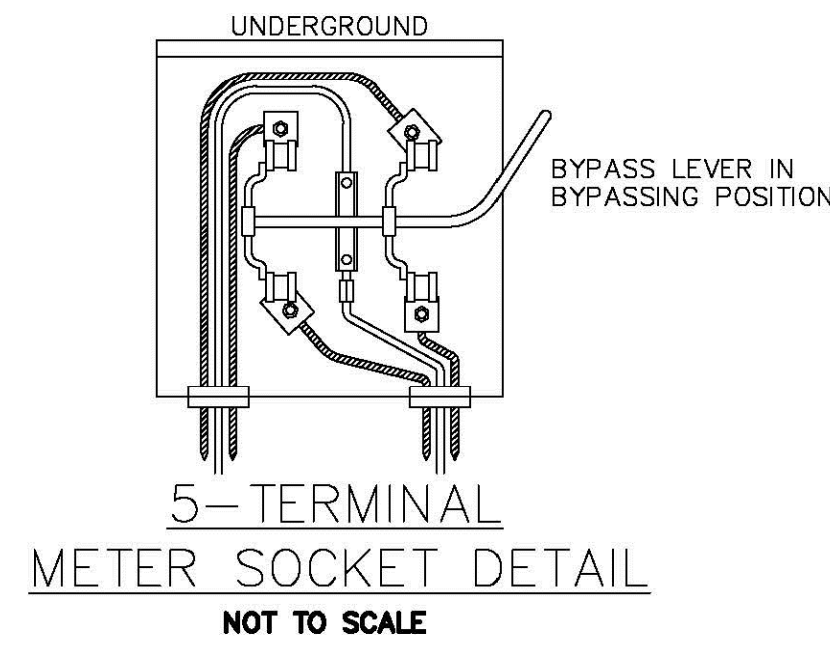


- NOTES:
- SERVICE FOR 200 AMP., 1 PHASE, 3 WIRE, 120/240 VOLT OR 120/208 VOLT.
  - ENCLOSURE IS BUILT TO NEMA 3R STANDARDS, FABRICATED FROM 304 STAINLESS STEEL.
  - FRONT DOORS ARE FABRICATED FROM 304 STAINLESS STEEL AND WILL BE HELD SHUT WITH A THREE-POINT LATCHING MECHANISM WITH PROVISIONS FOR PADLOCKING. HANDLE IS STAINLESS STEELTOP AND BOTTOM STRIKERS HAVE NYLON ROLLERS.
  - PHOTO-CELL MOUNTED INSIDE THE ENCLOSURE, ON THE RIGHT SIDE, BEHIND A 5"x5-1/2" LEXAN WINDOW.
  - 69"x69" SUB-PANEL IS FABRICATED FROM HOT ROLL PAINTED STEEL (1 REQUIRED)
  - ENCLOSURE TO HAVE CONCEALED THREE-POINT HINGES.
  - SERVICE CABINET IS UNDERWRITERS LABORATORIES LISTED 508A. (FACTORY ASSEMBLED AND WIRED)
  - CONTRACTOR TO ASSURE THAT ALL ELECTRICAL COMPONENTS CAN PROPERLY BE INSTALLED INSIDE THE SERVICE CABINET WITHOUT VIOLATING CLEARANCE REQUIREMENTS.

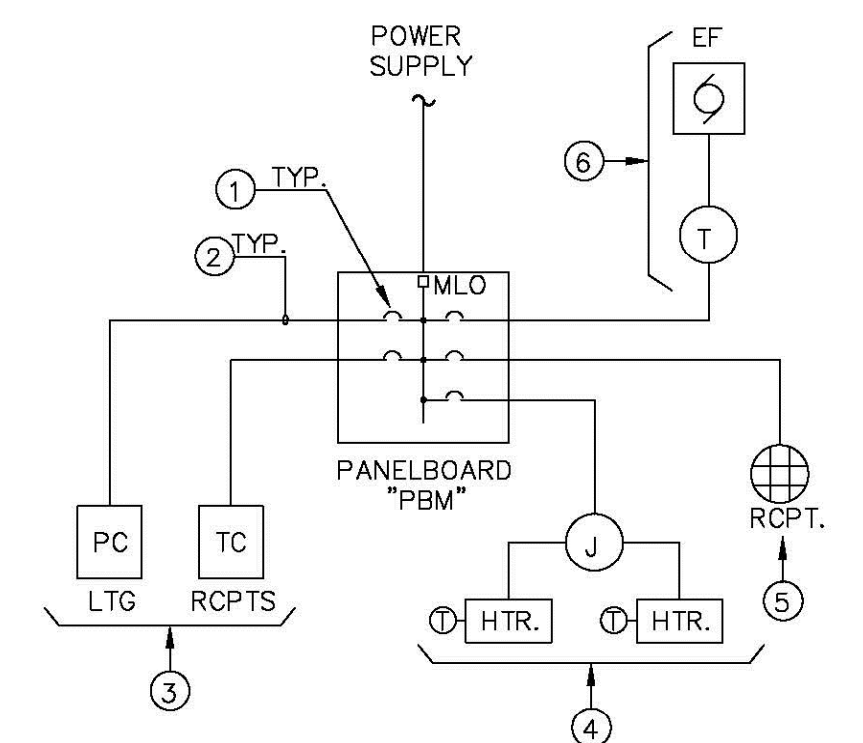
LIGHTING SERVICE CABINETS  
NOT TO SCALE



PROPOSED ELECTRICAL  
HIGHWAY LIGHTING CONTROL CENTER LADDER DIAGRAM  
NO SCALE



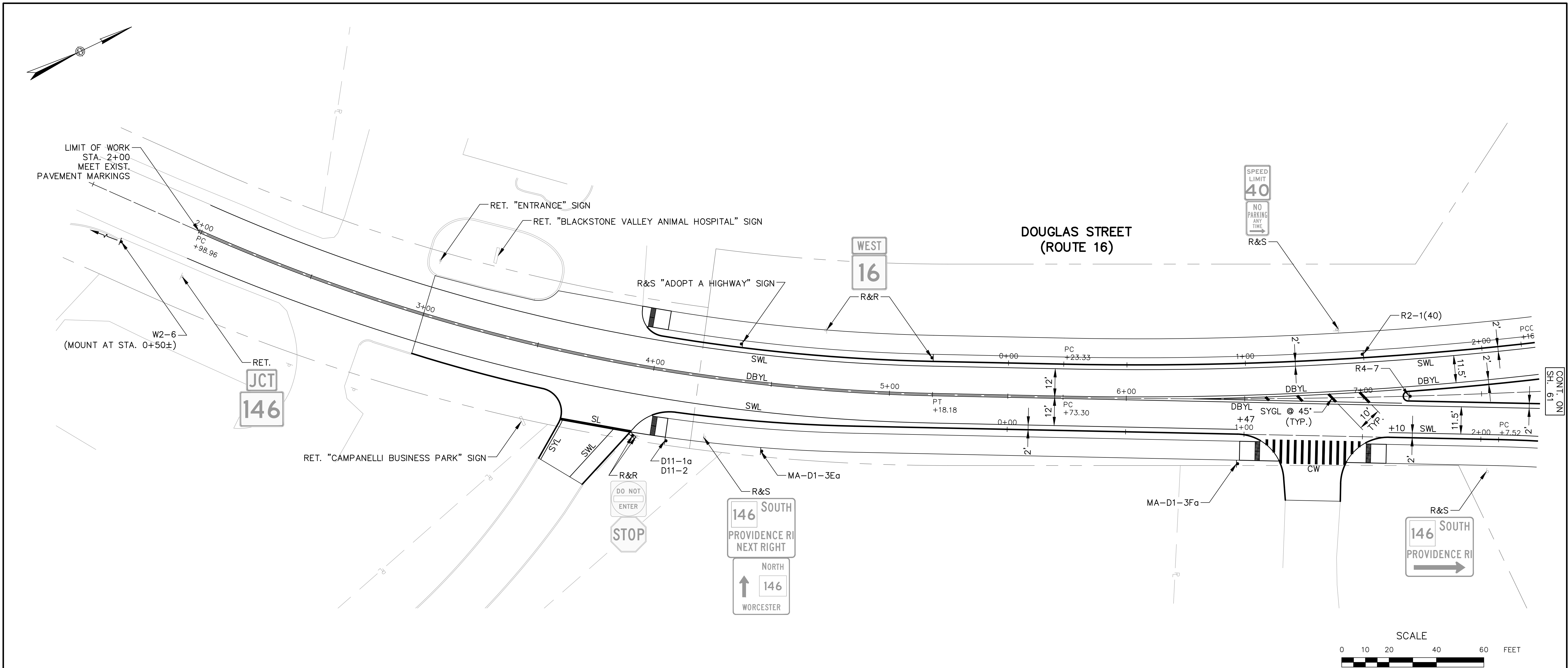
TYPICAL POWER CABLES  
SPLICING DETAIL  
NOT TO SCALE



TYPICAL LIGHTING SERVICES CABINET  
WIRING DETAIL  
NOT TO SCALE

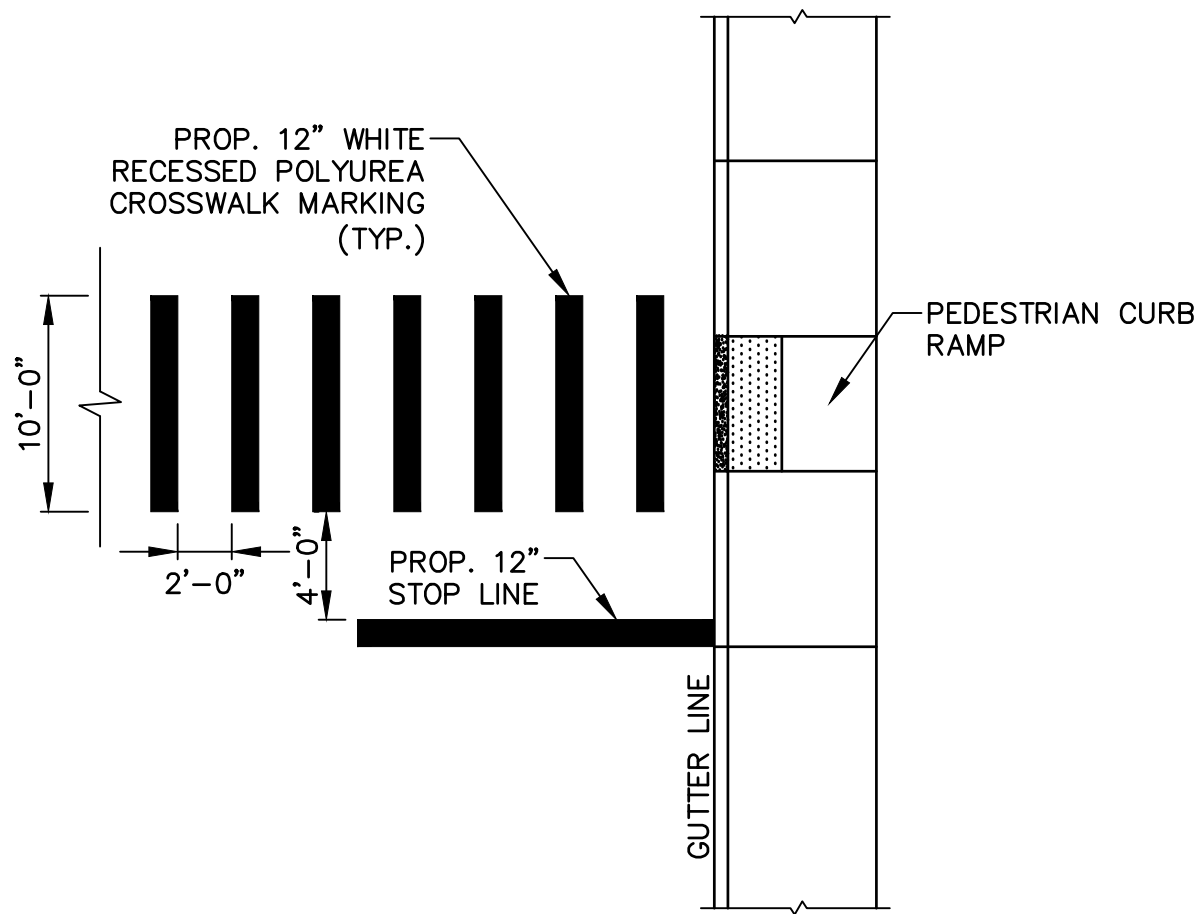
- LIGHTING SERVICE CABINET  
WIRING DETAIL NOTES
- PANELBOARD BRANCH CIRCUIT BREAKER, FOR DETAILS REFER TO THE PANELBOARD SCHEDULE.
  - 3/4" WITH 3 120. WIRES FIELD INSTALLED IN THE CABINET.
  - LIGHTING AND RECEPTACLES POWER CONTACTORS, FOR DETAILS, REFER TO THE ONE LINE POWER DIAGRAMS.
  - ELECTRIC CABINET HEATERS WITH INTEGRAL THERMOSTATS
  - MAINTENANCE QUADPLEX POWER RECEPTACLE.
  - CABINET COOLING EXHAUST FAN WITH TEMP CONTROL THERMOSTAT.

REV.	DESCRIPTION	BY	DATE
LIGHTING DETAILS			
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MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
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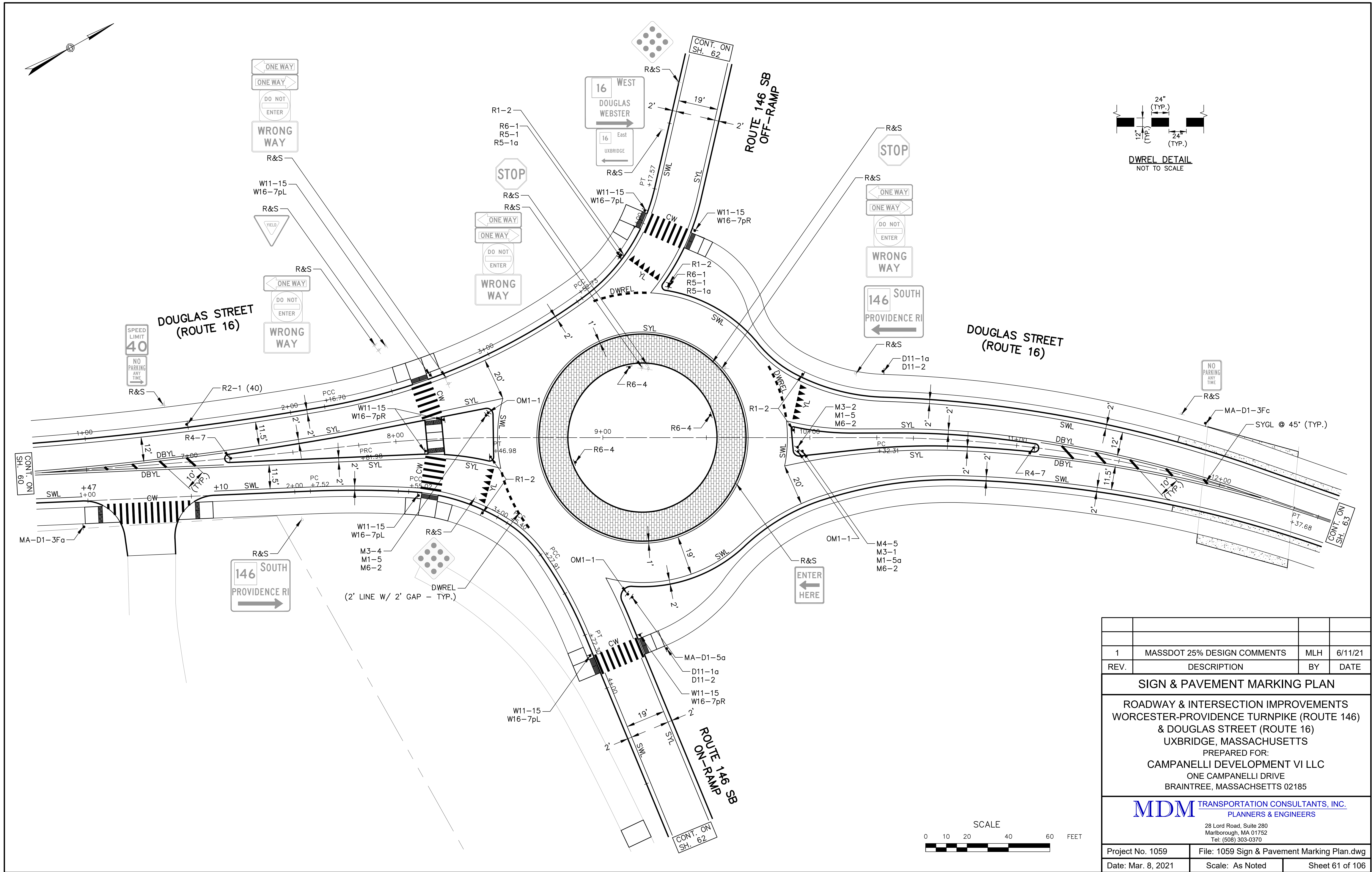
PAVEMENT MARKINGS & SIGNS NOTES

- ALL EXISTING SIGNS AND SIGN POSTS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS OTHERWISE NOTED ON PLANS.
- ALL LONGITUDINAL LINES, CROSSWALKS AND STOP LINE PAVEMENT MARKINGS SHALL BE RECESSED POLYUREA, ALL OTHER PAVEEMNT MARKINGS SHALL BE THERMOPLASTIC, UNLESS NOTED OTHERWISE.
- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED BY GRINDING OR OTHER METHODS APPROVED BY THE ENGINEER.
- SAFETY CONTROLS FOR CONSTRUCTION OPERATION SHALL BE IN ACCORDANCE WITH MASSDOT REQUIREMENTS, THE MUTCD, AND THESE PLANS.
- ALL PROPOSED SIGN POSTS SHALL BE P-5 TELESCOPIC 2" X 2" SQUARE TUBE TYPE WITH TWO-PIECE BREAKAWAY ANCHORS.
- ALL SIGNS NOTED AS "R&R" SHALL BE MOUNTED ON NEW P5 POSTS OR AS OTHERWISE INDICATED.
- PROPOSED PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE 2009 MUTCD AND THE 1990 MASSDOT STANDARD DRAWINGS FOR SIGNS AND SUPPORTS.
- ALL SIGNS SHALL BE SET 90° TO THE CURB AND FACING THE FLOW OF TRAFFIC.
- ALL SIGNS TO BE MOUNTED NEAR THE CURB LINE, AS DETERMINED BY THE ENGINEER, SHALL BE SET BACK A MINIMUM OF 24" FROM THE EDGE OF THE SIGN PANEL TO THE CURB LINE. NO SIGN SHALL OVERHANG THE CURB.
- ALL R4-7 SIGNS SHALL BE MOUNTED TO PROVIDE 4'-0" OF CLEARANCE BETWEEN THE BOTTOM OF THE SIGN AND THE FINISHED GRADE. ALL OTHER SIGNS SHALL BE MOUNTED TO PROVIDE A 7'-0" MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE SIGN AND FINISHED GRADE.
- SIGNS OWNED BY THE TOWN OF UXBRIDGE THAT ARE TO BE REMOVED AND STACKED SHALL BE DELIVERED TO UXBRIDGE DPW, 147 HECLA STREET, UXBRIDGE, MA 01569.



CROSSWALK PAVEMENT MARKING DETAIL  
NOT TO SCALE

1	MASSDOT 25% DESIGN COMMENTS	MLH	6/11/21
REV.	DESCRIPTION	BY	DATE
SIGN & PAVEMENT MARKING PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
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Project No. 1059		File: 1059 Sign & Pavement Marking Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 60 of 106

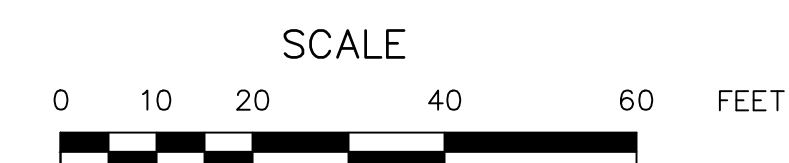
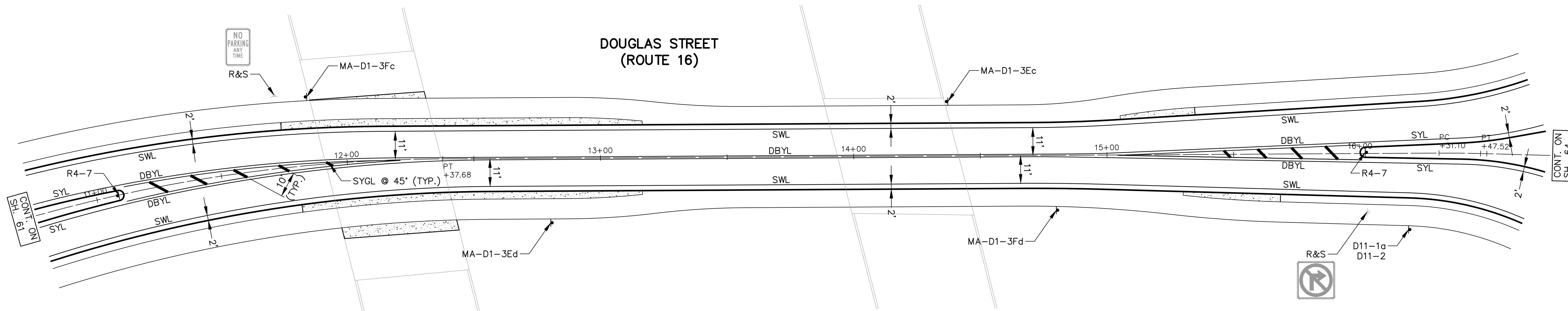
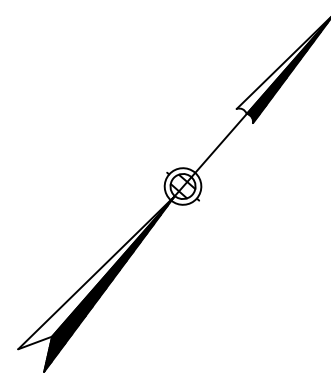


1	MASSDOT 25% DESIGN COMMENTS	MLH	6/11/21
REV.	DESCRIPTION	BY	DATE
SIGN & PAVEMENT MARKING PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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Project No. 1059		File: 1059 Sign & Pavement Marking Plan.dwg	
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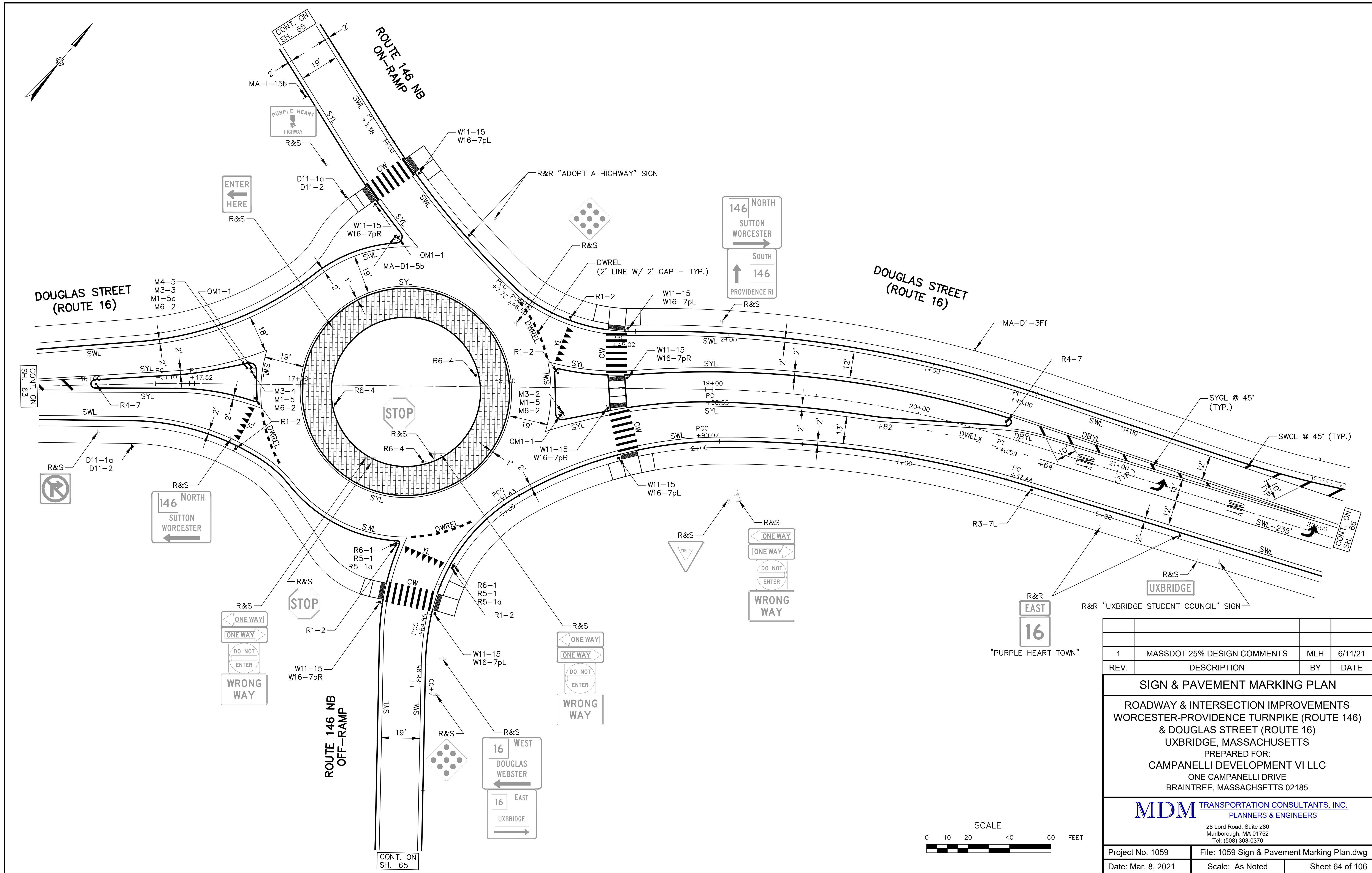
MDM TRANSPORTATION CONSULTANTS, INC.  
PLANNERS & ENGINEERS

28 Lord Road, Suite 280  
Marlborough, MA 01752  
Tel: (508) 303-0370

Project No. 1059	File: 1059 Sign & Pavement Marking Plan.dwg	
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1	MASSDOT 25% DESIGN COMMENTS	MLH	6/11/21
REV.	DESCRIPTION	BY	DATE
SIGN & PAVEMENT MARKING PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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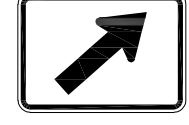
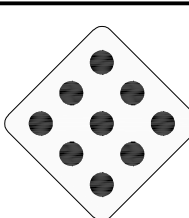






# TRAFFIC SIGN SUMMARY

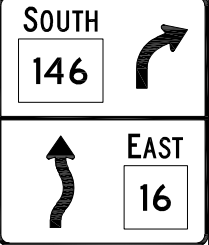
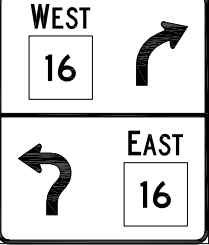
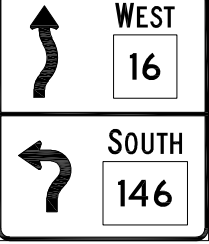
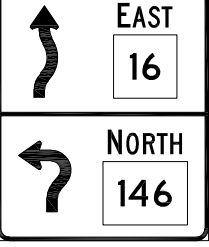
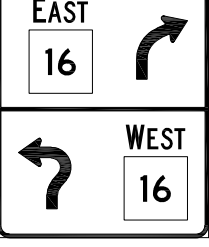
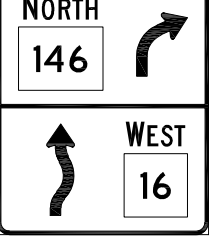
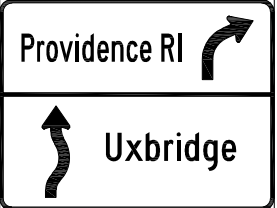

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER			
D11-1a	18"	18"		SEE 2009 MUTCD			6	GREEN	WHITE	WHITE	P-5 6	2.25	13.50
D11-2	18"	18"					6	GREEN	WHITE	WHITE	P-5 6	2.25	13.50
R1-1	30"	30"					1	RED	WHITE	WHITE	P-5 1	6.25	6.25
R1-2	30"	30"					12	RED	WHITE	WHITE	4 MTD. ON BACK OF R5-1 P-5 8	6.25	75.00
R2-1 (40)	24"	30"					2	WHITE	BLACK	BLACK	P-5 2	5.00	10.00
R3-7L	30"	30"					2	WHITE	BLACK	BLACK	P-5 2	6.25	12.50
R4-7	24"	30"					5	WHITE	BLACK	BLACK	P-5 4	5.00	25.00
R5-1	30"	30"					4	WHITE	BLACK	BLACK	P-5 4	6.25	25.00
R5-1a	36"	24"					4	RED	WHITE	WHITE	MTD. BELOW R5-1	6.00	24.00
R6-1 (PBS)	36"	12"					8	WHITE	BLACK	BLACK	MTD. ABOVE R5-1	3.00	24.00
R6-4	30"	24"					6	WHITE	BLACK	WHITE	P-5 6	5.00	30.00
W2-6	30"	30"					4	WHITE	BLACK	WHITE	P-5 4	6.25	25.00
W11-15	36"	36"					16	SEE NOTE #2 BELOW	BLACK	BLACK	P-5 16	9.00	144.00
W16-7pL	24"	12"					8	SEE NOTE #2 BELOW	BLACK	BLACK	MTD. UNDER W11-15	2.00	16.00
W16-7pR	24"	12"					8	SEE NOTE #2 BELOW	BLACK	BLACK	MTD. UNDER W11-15	2.00	16.00

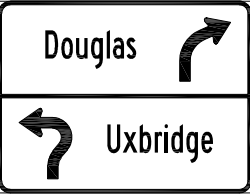
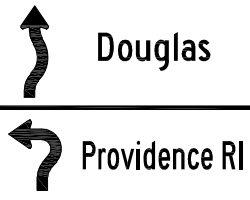

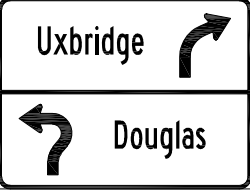
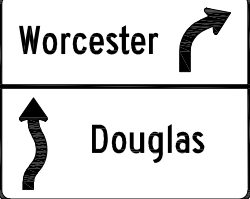
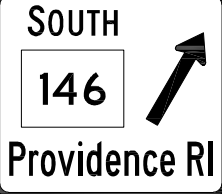

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER			
M1-5	24"	24"		SEE 2009 MUTCD			4	WHITE	BLACK	WHITE	P-5 4	4.00	16.00
M1-5a	24"	30"					2	WHITE	BLACK	WHITE	P-5 2	5.00	10.00
M3-1	24"	12"					1	WHITE	BLACK	WHITE	MTD. BELOW M1-5a	2.00	2.00
M3-2	24"	12"					2	WHITE	BLACK	WHITE	MTD. BELOW M1-5	2.00	4.00
M3-3	24"	12"					1	WHITE	BLACK	WHITE	MTD. BELOW M1-5a	2.00	2.00
M3-4	24"	12"					2	WHITE	BLACK	WHITE	MTD. BELOW M1-5	2.00	4.00
M4-5	24"	12"					2	WHITE	BLACK	WHITE	MTD. ABOVE M1-5a	2.00	4.00
M6-2	21"	15"					4	WHITE	BLACK	WHITE	MTD. ABOVE M1-5	2.20	8.80
OM1-1	24"	24"					6	SEE MASSDOT STANDARDS			P-5 6	PAID UNDER ITEM 827.21	

- NOTES:  
1. PBS – PROVIDE BOTH SIDES  
2. BACKGROUND COLOR FOR ALL W11-15, W16-7PL, AND W16-7PR SIGNS SHALL BE FLUORESCENT YELLOW-GREEN

1	MASSDOT 25% DESIGN COMMENTS	MLH	6/11/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC SIGN SUMMARY			
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Project No. 1059		File Name: 1059 Traffic Sign Summary.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 67 of 106

# TRAFFIC SIGN SUMMARY

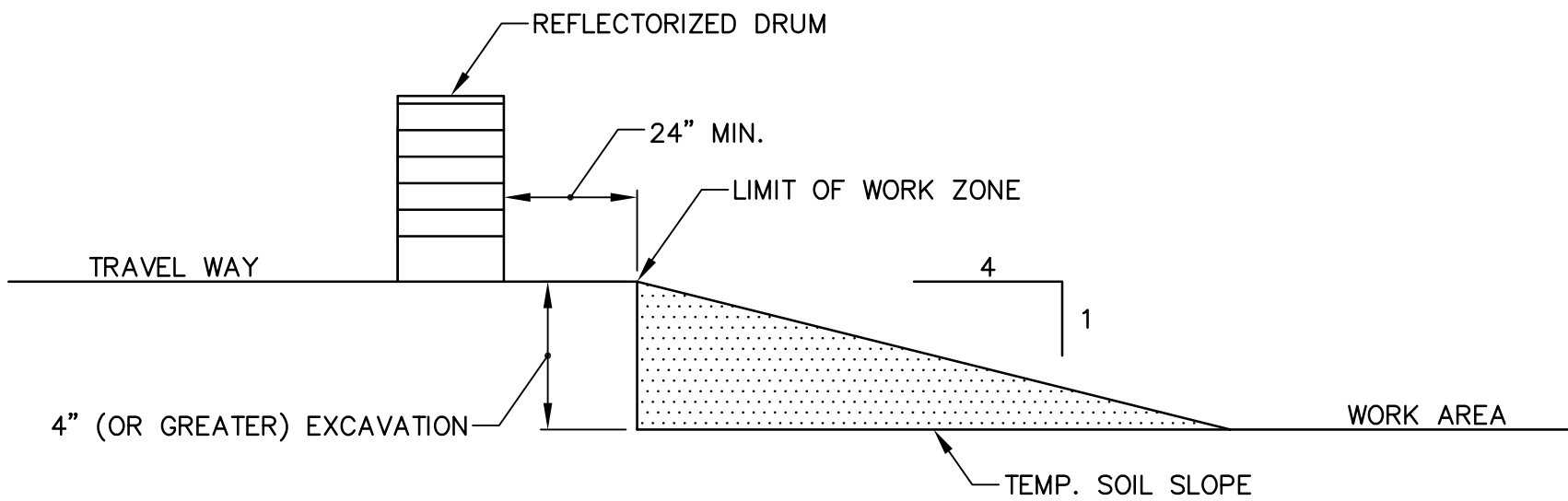
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER			
MA-D1-3Ea	60"	72"		SEE MASSDOT STANDARDS			1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	30.00	30.00
MA-D1-3Eb	60"	72"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	30.00	30.00
MA-D1-3Ec	60"	72"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	30.00	30.00
MA-D1-3Ed	60"	72"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	30.00	30.00
MA-D1-3Ee	60"	72"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	30.00	30.00
MA-D1-3Ef	60"	72"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	30.00	30.00
MA-D1-3Fa	78"	60"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	32.50	32.50
MA-I-15b	36"	24"					1	WHITE	BLACK	BLACK	P-5 1	6.00	6.00

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND	BORDER			
MA-D1-3Fb	72"	54"		SEE MASSDOT STANDARDS			1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	27.00	27.00
MA-D1-3Fc	78"	60"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	32.50	32.50
MA-D1-3Fd	72"	60"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	30.00	30.00
MA-D1-3Fe	72"	54"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	27.00	27.00
MA-D1-3Ff	72"	60"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	2 MASSDOT STD. GROUND MOUNTED SIGN SUPPORTS W/BREAKAWAY DESIGN	30.00	30.00
MA-D1-5a	54"	48"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	(1) 4" TUBULAR STEEL SIGN SUPPORT W/BREAKAWAY DESIGN	18.00	18.00
MA-D1-5b	54"	48"					1	REFL. GREEN H/I M9.30.0	REFL. WHITE H/I M9.30.0	REFL. WHITE H/I M9.30.0	(1) 4" TUBULAR STEEL SIGN SUPPORT W/BREAKAWAY DESIGN	18.00	18.00

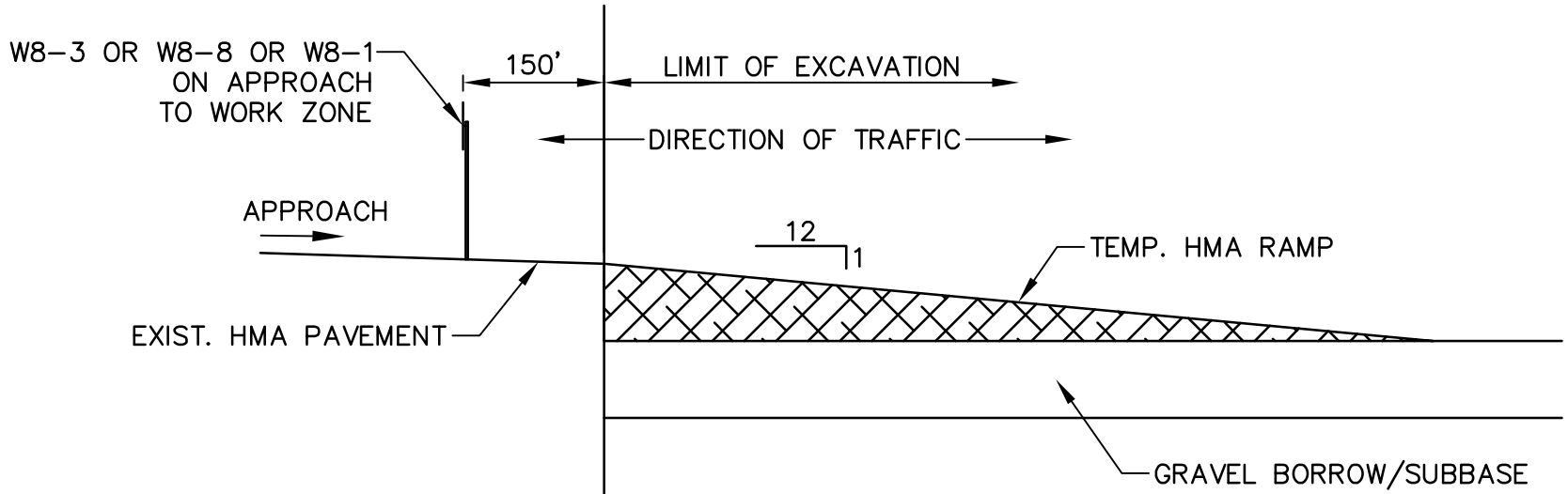
1	MASSDOT 25% DESIGN COMMENTS	MLH	6/11/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC SIGN SUMMARY			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Traffic Sign Summary.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 68 of 106

GENERAL NOTES

1. ALL CONSTRUCTION SIGNING, DRUMS, BARRICADES AND OTHER DEVICES SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS AMENDED, AND MASSDOT STANDARDS.
2. THE TRAFFIC MANAGEMENT PLANS PRESENT SUGGESTED CONSTRUCTION STAGING WITH PERTINENT TRAFFIC CONTROLS. THE CONTRACTOR MAY SUBMIT ALTERNATE STAGING AND TRAFFIC CONTROL PLANS FOR APPROVAL BY THE ENGINEER IN WRITING.
3. ALL DISTANCES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. HOWEVER, MINIMUM DISTANCES, WHERE INDICATED, SHOULD BE MAINTAINED.
4. MAXIMUM SPACING OF CHANNELIZING DEVICES IS EQUAL, IN FEET, TO SPEED LIMIT (MPH). (15' SPACING TYPICAL ON TAPER, 30' SPACING TYPICAL ON TANGENTS.)
5. CHANNELIZATION SHALL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS. FOR THE FIRST TEN (10) DRUMS, ATTACH FLASHER TYPE "A".
6. PLASTIC DRUMS WITH ANY FORM OF LIGHTING DEVICE MOUNTED ON THEM MUST PASS THE CRITERIA AS SET FORTH IN THE AASHTO "MANUAL FOR THE ASSESSMENT OF SAFETY HARDWARE" OR THE NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES". IF THEY DO NOT MEET THESE CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.
7. ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD AND MASSDOT STANDARDS. ALL CONSTRUCTION SIGNS SHALL BE MOUNTED TO THEIR OWN STANDARD SIGN SUPPORTS.
8. FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED ON ADVANCE WARNING SIGNS AS DIRECTED BY THE ENGINEER. FLAGS SHALL BE A MINIMUM OF 16" X 16".
9. THE CONTRACTOR SHALL NOTIFY MASSDOT AND THE TOWN OF UXBRIDGE POLICE, FIRE AND DPW AT LEAST 24 HOURS IN ADVANCE OF ANY LANE CLOSURES.
10. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER NEEDED.
11. FOR CONSTRUCTION OPERATIONS OF LONG DURATION (MORE THAN 3 DAYS), EXISTING CENTERLINE MARKINGS SHALL BE REMOVED AND A TEMPORARY CENTERLINE STRIPED IN A PROPER LOCATION.
12. ADVANCE WARNING SIGNS NO LONGER APPLICABLE, WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS, SHALL EITHER BE COVERED OR REMOVED AS SOON AS POSSIBLE. NO SIGN SHALL BE VISIBLE TO TRAFFIC THAT MAY CONFLICT WITH ACTUAL ROADWAY CONDITIONS.
13. PAVEMENT MARKINGS NO LONGER APPLICABLE, WHICH MAY CREATE CONFUSION, SHALL BE REMOVED. TEMPORARY PAVEMENT MARKINGS SHALL BE USED AS NECESSARY TO PROPERLY DELINEATE THE ROADWAY AND SHALL BE IN PLACE BEFORE WORK IS COMPLETED EACH DAY.
14. AT THE END OF EACH WORKDAY, NO UNNECESSARY TRAFFIC CONTROL DEVICES SHALL REMAIN IN THE ROADWAY, AND ALL ROADWAYS SHALL BE OPEN FOR TWO-WAY TRAFFIC BY FILLING EXCAVATIONS TO GRADE OR USING STEEL PLATES.
15. CROSS SECTIONAL GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.
16. CROSS SECTIONAL GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A WEDGE OF GRAVEL OR SOIL COMPACTED AT A 4:1 SLOPE AND SHALL ALSO REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.
17. THE CONTRACTOR MUST MAINTAIN ACCESS AND EGRESS AT ALL TIMES TO ALL PROPERTIES ABUTTING THE WORK ZONE.
18. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.



TEMPORARY TRAVEL WAY AND LATERAL PAVEMENT SLOPE  
(AFTER WORK HOUR SETUP)  
NOT TO SCALE



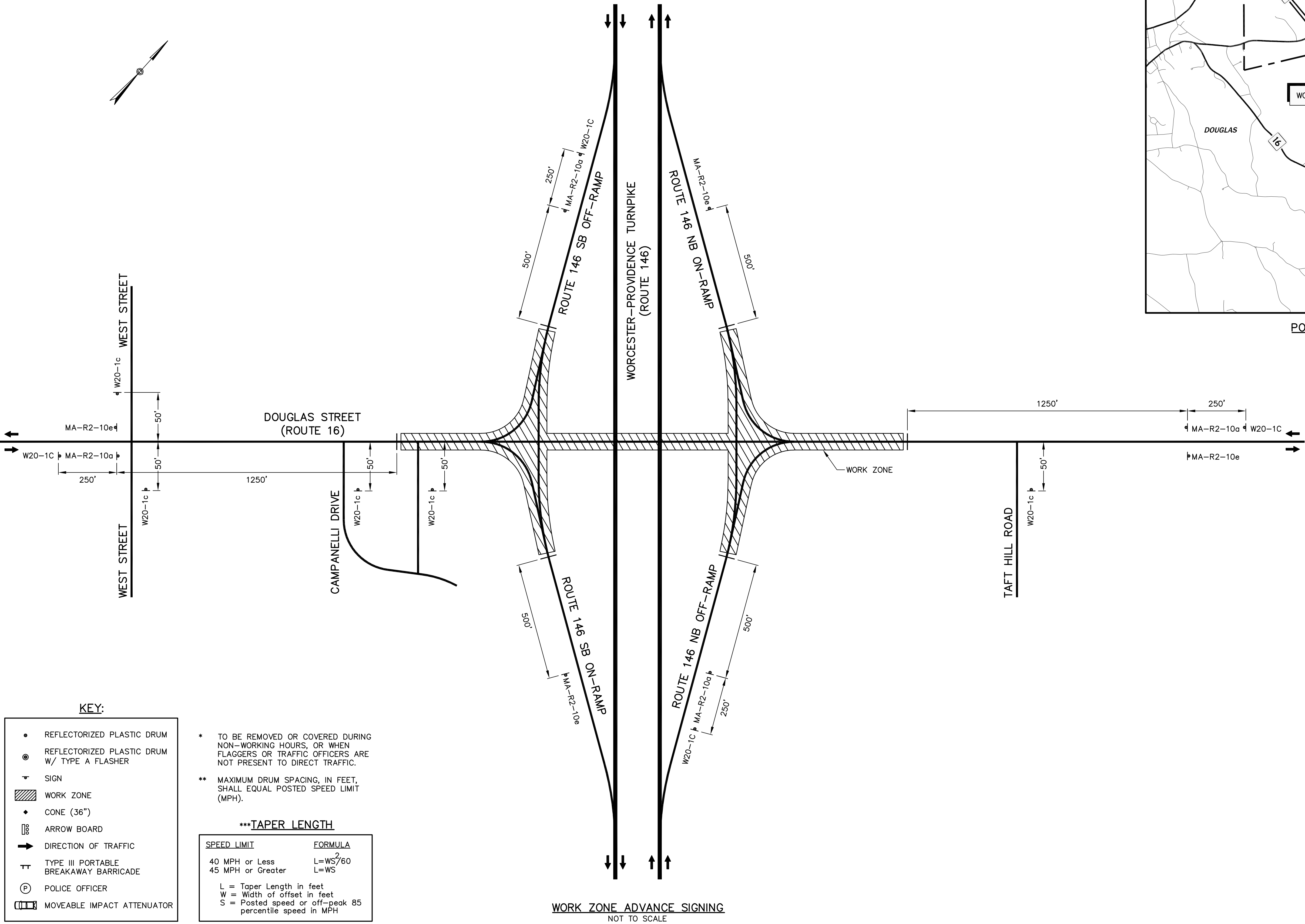
LONGITUDINAL DROP-OFF DETAIL  
MASSDOT TEMPORARY TRAFFIC CONTROL STD. DWGS. GEN-6  
NOT TO SCALE

CONSTRUCTION SIGN SUMMARY

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW		BACK- GROUND	LEGEND/ SYMBOL	BORDER			
MA-R2-10a	48"	36"		SEE MASSDOT STANDARDS			4	ORANGE/ WHITE	BLACK	BLACK	TEMP. 4	12.00	48.00
MA-R2-10e	36"	48"					4	ORANGE/ WHITE	BLACK	BLACK	TEMP. 4	12.00	48.00
MA-W20-7b	36"	36"					3	ORANGE	BLACK	BLACK	TEMP. 3	9.00	27.00
E5-2a	30"	24"		SEE 2009 MUTCD			1	ORANGE	BLACK	BLACK	TEMP. 1	5.00	5.00
M4-9L	30"	24"					2	ORANGE	BLACK	BLACK	TEMP. 2	5.00	10.00
M4-9R	30"	24"					3	ORANGE	BLACK	BLACK	TEMP. 3	5.00	15.00
M4-9S	30"	24"					1	ORANGE	BLACK	BLACK	TEMP. 1	5.00	5.00
R1-1	30"	30"					4	RED	WHITE	WHITE	TEMP. 4	6.25	25.00
R5-1	30"	30"					4	WHITE	BLACK	BLACK	MTD. W/ R1-1	6.25	25.00
R9-11L	24"	12"					2	WHITE	BLACK	BLACK	TEMP. 2	2.00	4.00
R9-11R	24"	12"					2	WHITE	BLACK	BLACK	TEMP. 2	2.00	4.00

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	BACK- GROUND	COLOR LEGEND/ SYMBOL	BORDER	POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW							
W1-4L	36"	36"		SEE 2009 MUTCD			2	ORANGE	BLACK	BLACK	TEMP. 2	9.00	18.00
W1-4R	36"	36"					2	ORANGE	BLACK	BLACK	TEMP. 2	9.00	18.00
W5-1	36"	36"					2	ORANGE	BLACK	BLACK	TEMP. 2	9.00	18.00
W8-1	30"	30"					4	ORANGE	BLACK	BLACK	TEMP. 4	6.25	25.00
W11-2	36"	36"					2	ORANGE	BLACK	BLACK	TEMP. 2	9.00	18.00
W13-1p	18"	18"					2	ORANGE	BLACK	BLACK	MTD. W/ W-SERIES	1.50	2.25
W16-7pL	24"	12"					4	ORANGE	BLACK	BLACK	MTD. W/ W-SERIES	2.00	8.00
W20-1C AHEAD	36"	36"					9	ORANGE	BLACK	BLACK	TEMP. 9	9.00	81.00
W20-4 500 FT	36"	36"					1	ORANGE	BLACK	BLACK	TEMP. 1	9.00	9.00
W20-4C AHEAD	36"	36"					2	ORANGE	BLACK	BLACK	TEMP. 2	9.00	18.00

2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
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**KEY:**

- REFLECTORIZED PLASTIC DRUM
- REFLECTORIZED PLASTIC DRUM W/ TYPE A FLASHER
- SIGN
- WORK ZONE
- CONE (36")
- ARROW BOARD
- DIRECTION OF TRAFFIC
- TYPE III PORTABLE BREAKAWAY BARRICADE
- POLICE OFFICER
- MOVEABLE IMPACT ATTENUATOR

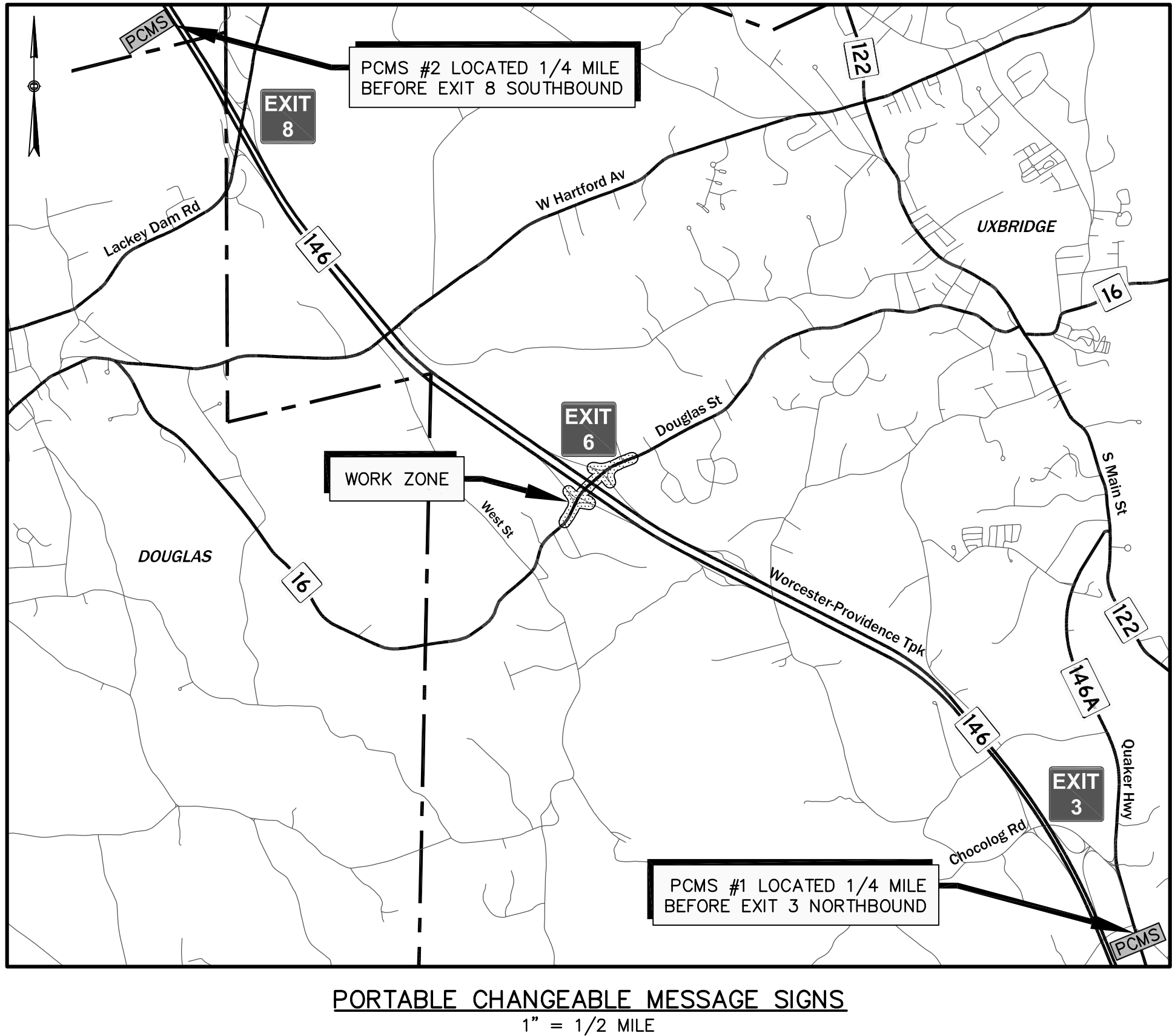
\* TO BE REMOVED OR COVERED DURING NON-WORKING HOURS, OR WHEN FLAGGERS OR TRAFFIC OFFICERS ARE NOT PRESENT TO DIRECT TRAFFIC.

\*\* MAXIMUM DRUM SPACING, IN FEET, SHALL EQUAL POSTED SPEED LIMIT (MPH).

**\*\*\*TAPER LENGTH**

SPEED LIMIT	FORMULA
40 MPH or Less	$L = WS^2/60$
45 MPH or Greater	$L = WS$

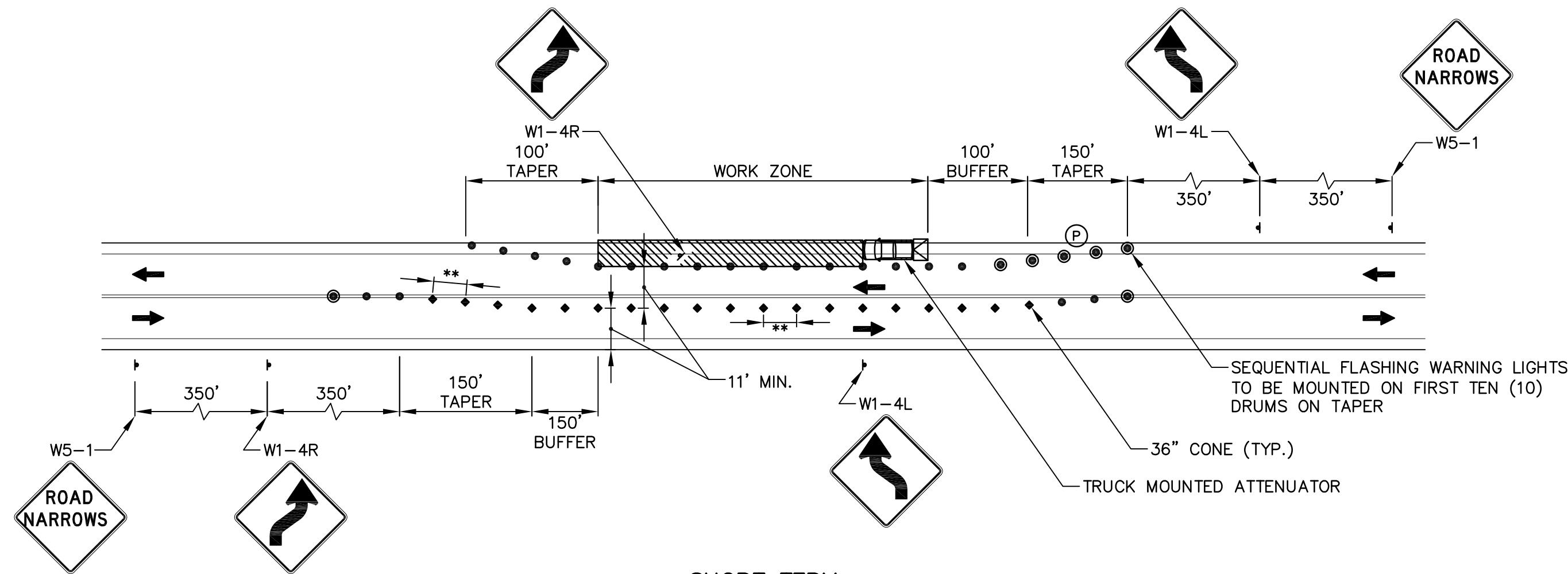
L = Taper Length in feet  
W = Width of offset in feet  
S = Posted speed or off-peak 85 percentile speed in MPH



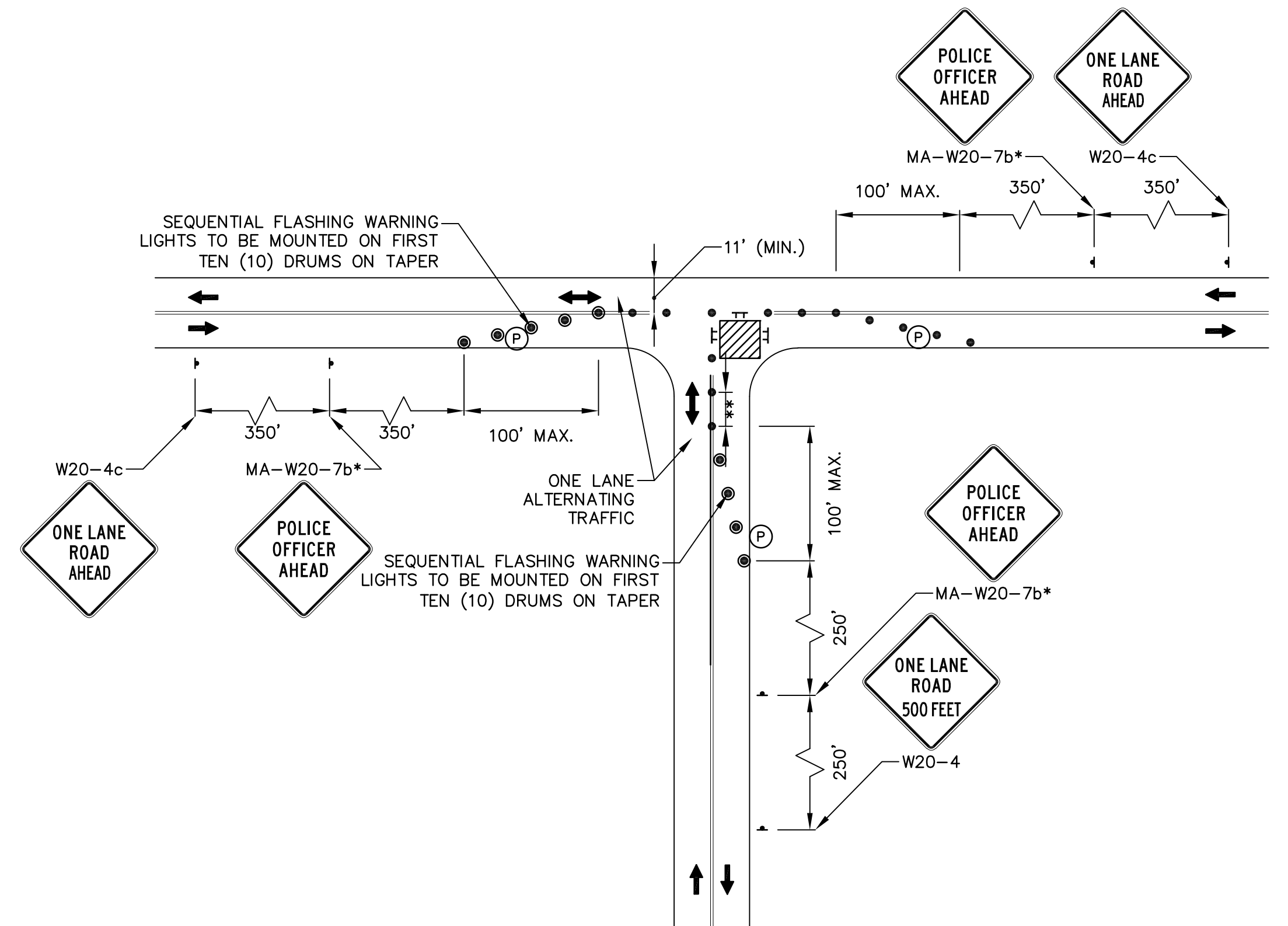
- PORTABLE CHANGEABLE MESSAGE SIGN NOTES**
- DURING CONSTRUCTION THE PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON ROUTE 146 NORTHBOUND 1/4 MILE FROM EXIT 3, AND ON ROUTE 146 SOUTHBOUND 1/4 MILE FROM EXIT 8.
  - PORTABLE CHANGEABLE MESSAGE SIGNS NO LONGER APPLICABLE, WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS, SHALL EITHER BE TURNED OFF OR REMOVED AS SOON AS POSSIBLE. NO PCMS SHALL BE VISIBLE TO TRAFFIC THAT MAY CONFLICT WITH ACTUAL ROADWAY CONDITIONS.
  - THE PORTABLE CHANGEABLE MESSAGE SIGNS SHALL DISPLAY THE FOLLOWING MESSAGES:

PCMS #1		PCMS #2	
MESSAGE 1	MESSAGE 2	MESSAGE 1	MESSAGE 2
ROAD	SEEK	ROAD	SEEK
WORK	ALT	WORK	ALT
EXIT 6	ROUTE	EXIT 6	ROUTE

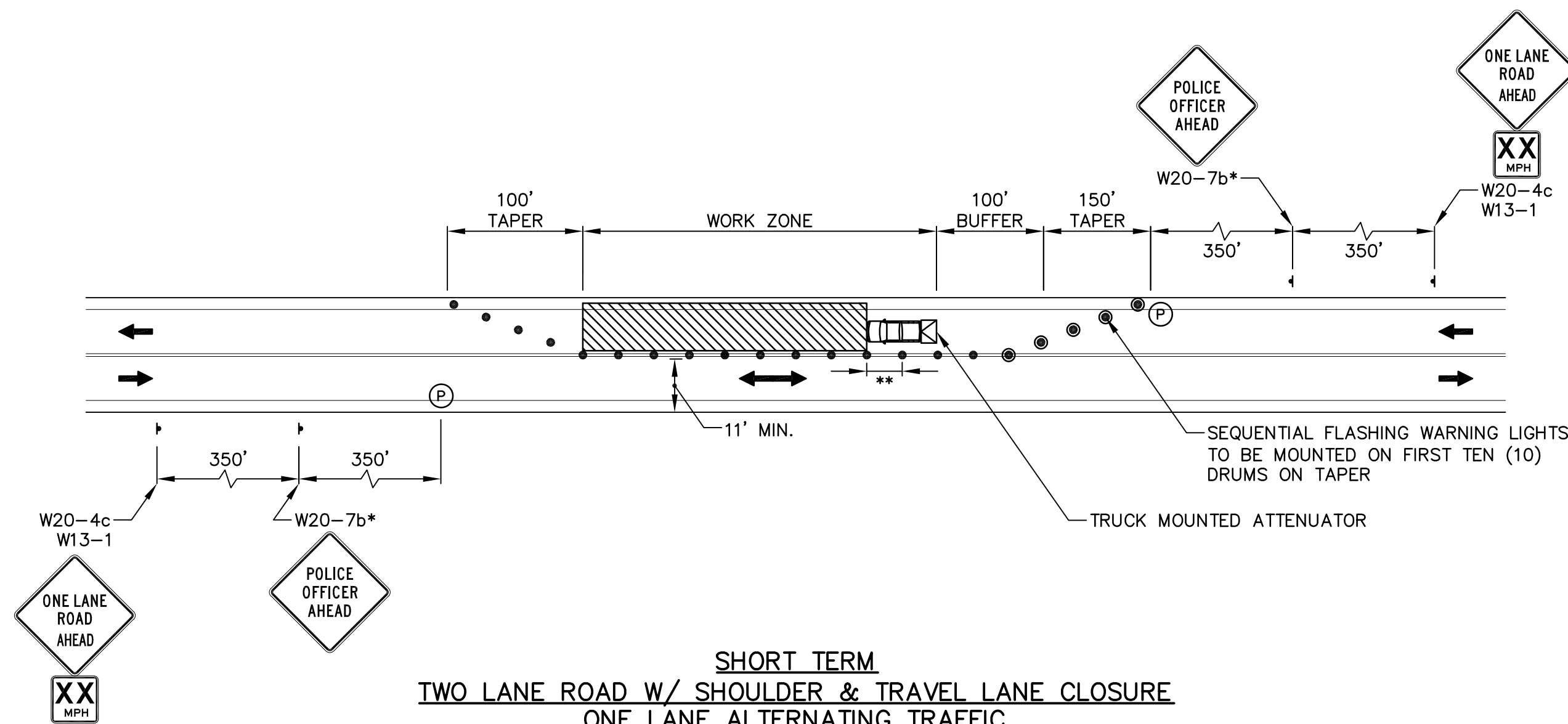
2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT 25% DESIGN COMMENTS	MH	6/11/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059	File Name: 1059 Traffic Management Plan.dwg		
Date: Mar. 8, 2021	Scale: As Noted	Sheet 70 of 106	



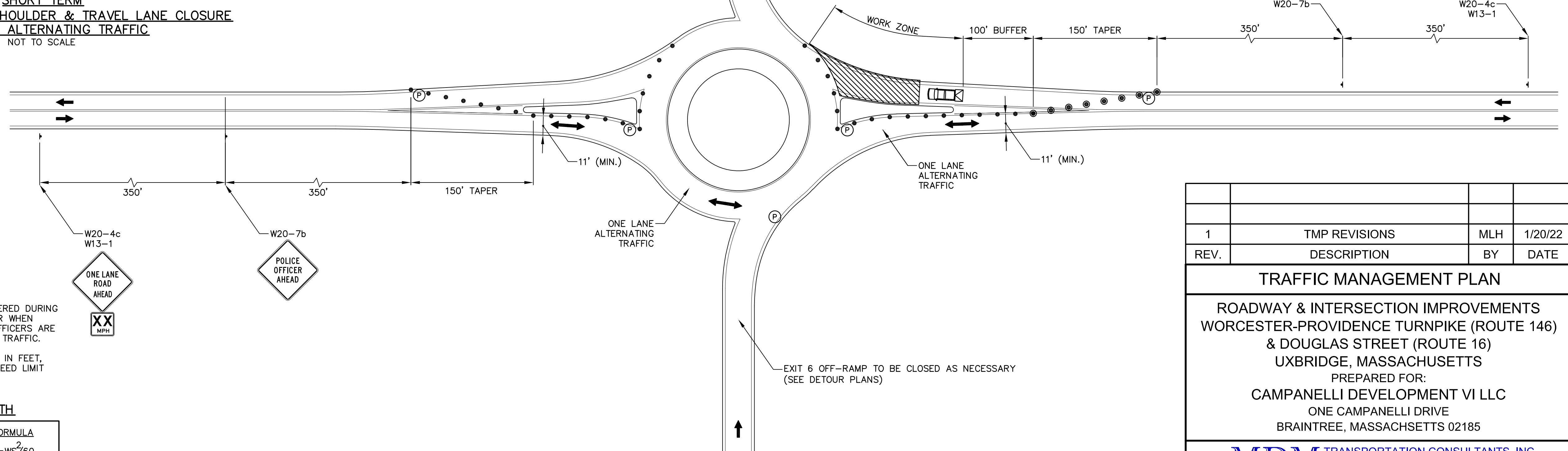
**SHORT TERM**  
**TWO LANE ROAD W/ SHOULDER & PARTIAL TRAVEL LANE CLOSURE**  
NOT TO SCALE



**SINGLE LANE APPROACH**  
**WITH ONE QUADRANT CLOSURE**  
NOT TO SCALE



**SHORT TERM**  
**TWO LANE ROAD W/ SHOULDER & TRAVEL LANE CLOSURE**  
**ONE LANE ALTERNATING TRAFFIC**  
NOT TO SCALE



**SHORT TERM**  
**TWO LANE ROAD TRAVEL LANE CLOSURE**  
**ONE LANE ALTERNATING TRAFFIC**  
NOT TO SCALE

**KEY:**

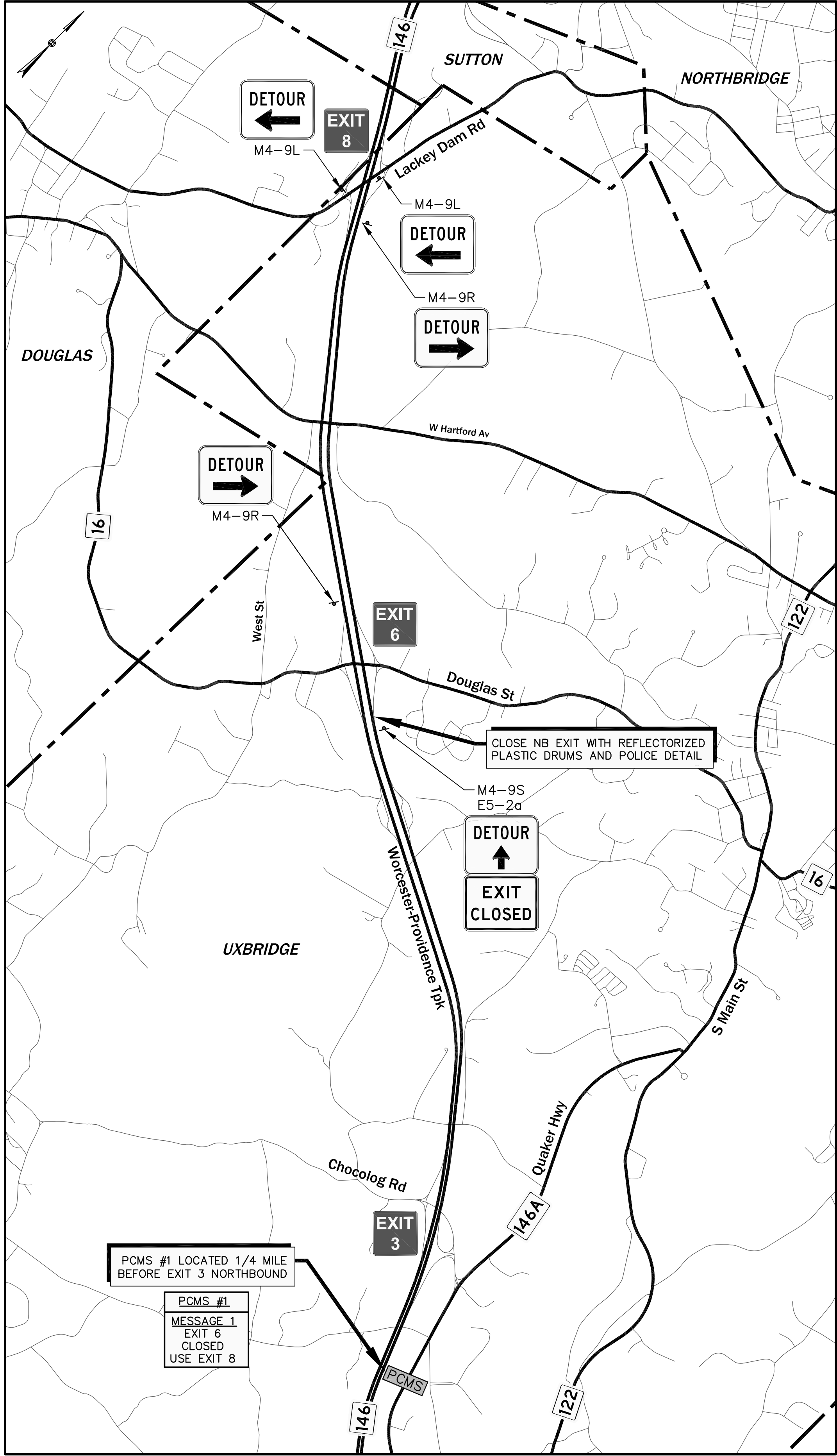
- REFLECTORIZED PLASTIC DRUM
- REFLECTORIZED PLASTIC DRUM W/ TYPE A FLASHER
- SIGN
- ▨ WORK ZONE
- CONE (36")
- ▢ ARROW BOARD
- DIRECTION OF TRAFFIC
- TT TYPE III PORTABLE BREAKAWAY BARRICADE
- (P) POLICE OFFICER
- ▢ MOVEABLE IMPACT ATTENUATOR

- \* TO BE REMOVED OR COVERED DURING NON-WORKING HOURS, OR WHEN FLAGGERS OR TRAFFIC OFFICERS ARE NOT PRESENT TO DIRECT TRAFFIC.
- \*\* MAXIMUM DRUM SPACING, IN FEET, SHALL EQUAL POSTED SPEED LIMIT (MPH).

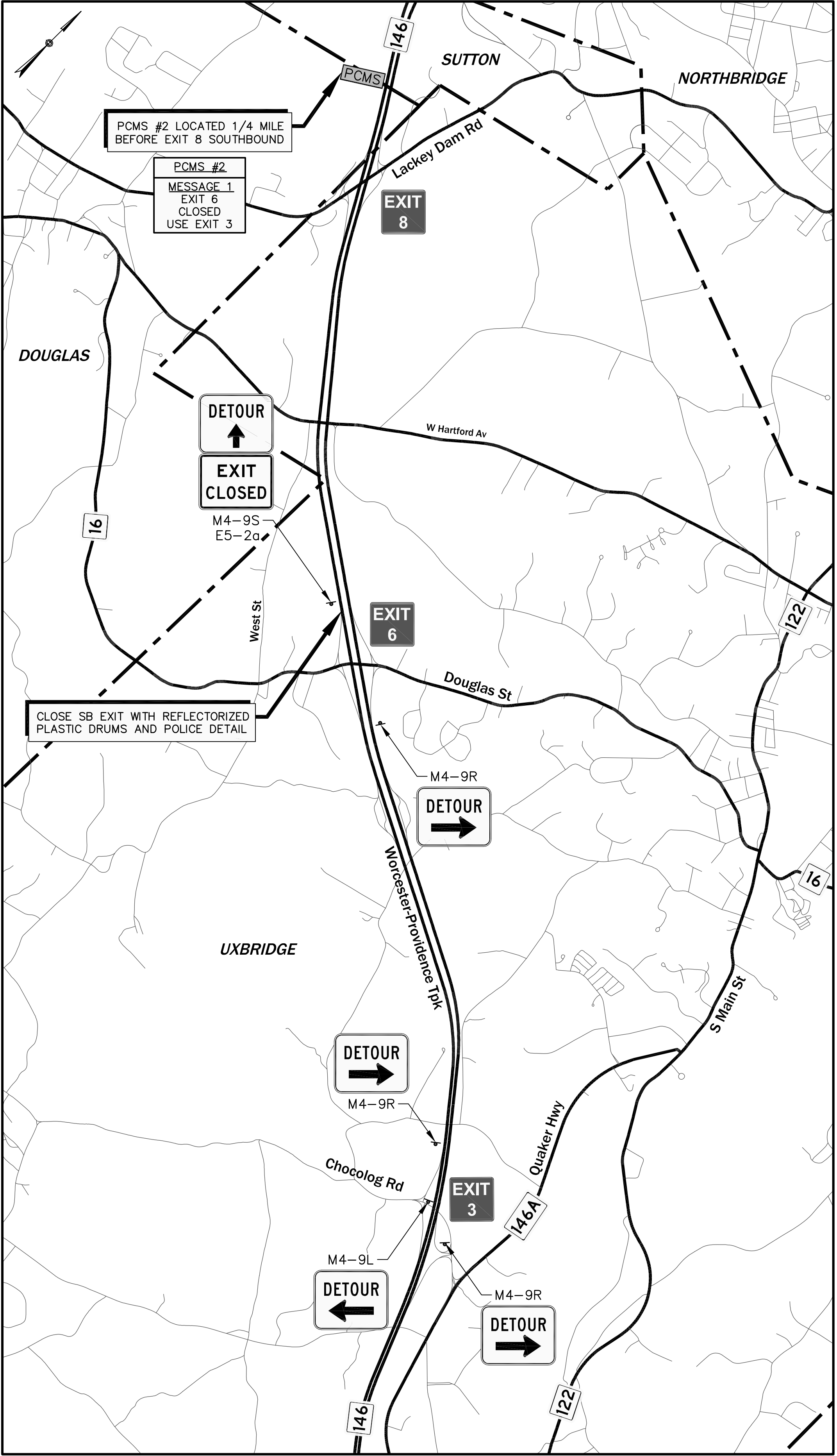
**\*\*\*TAPER LENGTH**

SPEED LIMIT	FORMULA
40 MPH or Less	$L = WS^2/60$
45 MPH or Greater	$L = WS$
L = Taper Length in feet W = Width of offset in feet S = Posted speed or off-peak 85 percentile speed in MPH	

1	TMP REVISIONS	MLH	1/20/22
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059	File Name: 1059 Traffic Management Plan.dwg		
Date: Mar. 8, 2021	Scale: As Noted	Sheet 71 of 106	

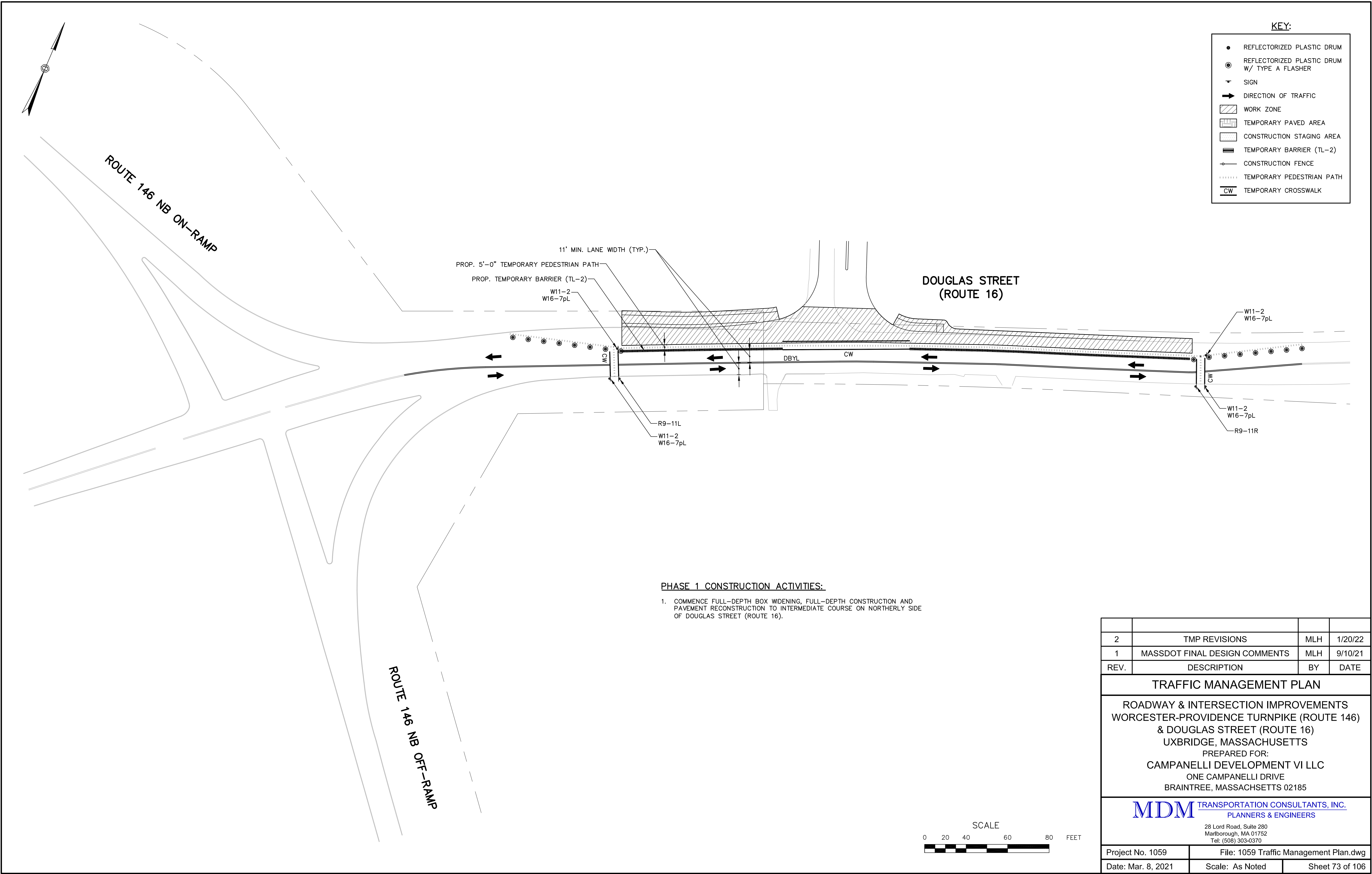


DETOUR FOR EXIT 6 NORTHBOUND CLOSURE  
1" = 1/3 MILE



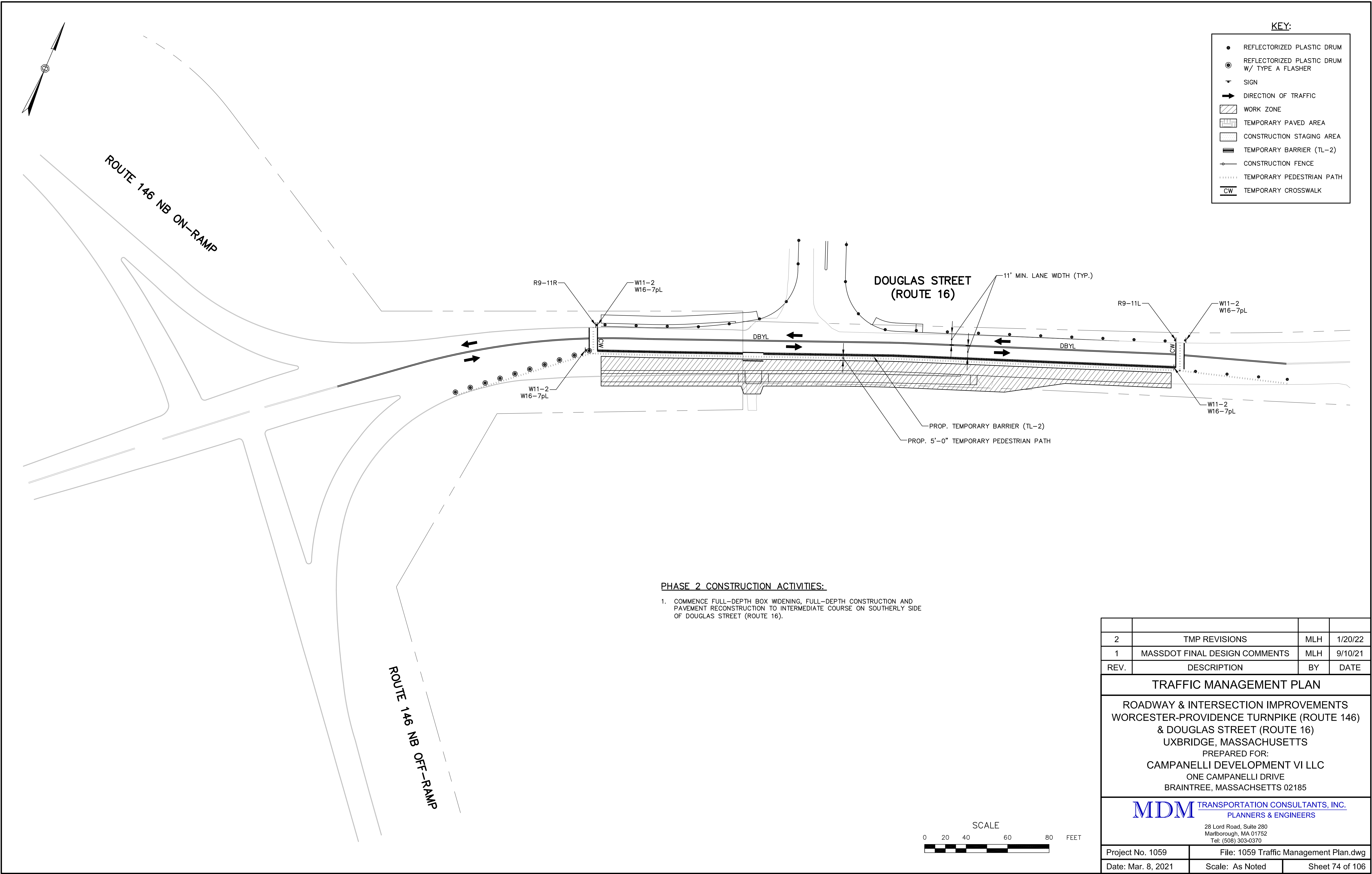
DETOUR FOR EXIT 6 SOUTHBOUND CLOSURE  
1" = 1/3 MILE

2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT 25% DESIGN COMMENTS	MH	6/11/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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Project No. 1059		File Name: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 72 of 106



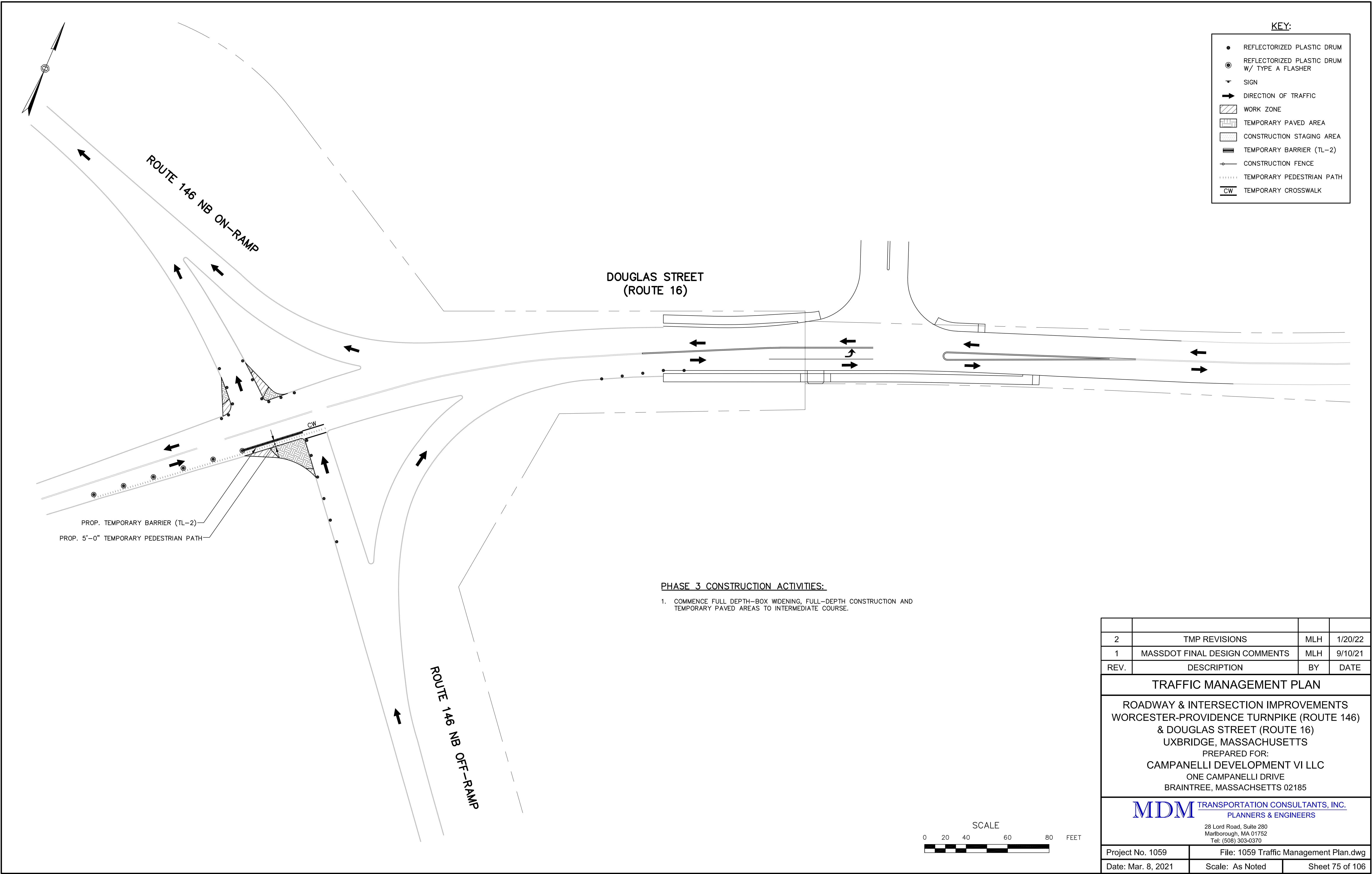
- PHASE 1 CONSTRUCTION ACTIVITIES:**
1. COMMENCE FULL-DEPTH BOX WIDENING, FULL-DEPTH CONSTRUCTION AND PAVEMENT RECONSTRUCTION TO INTERMEDIATE COURSE ON NORTHERLY SIDE OF DOUGLAS STREET (ROUTE 16).

2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 73 of 106



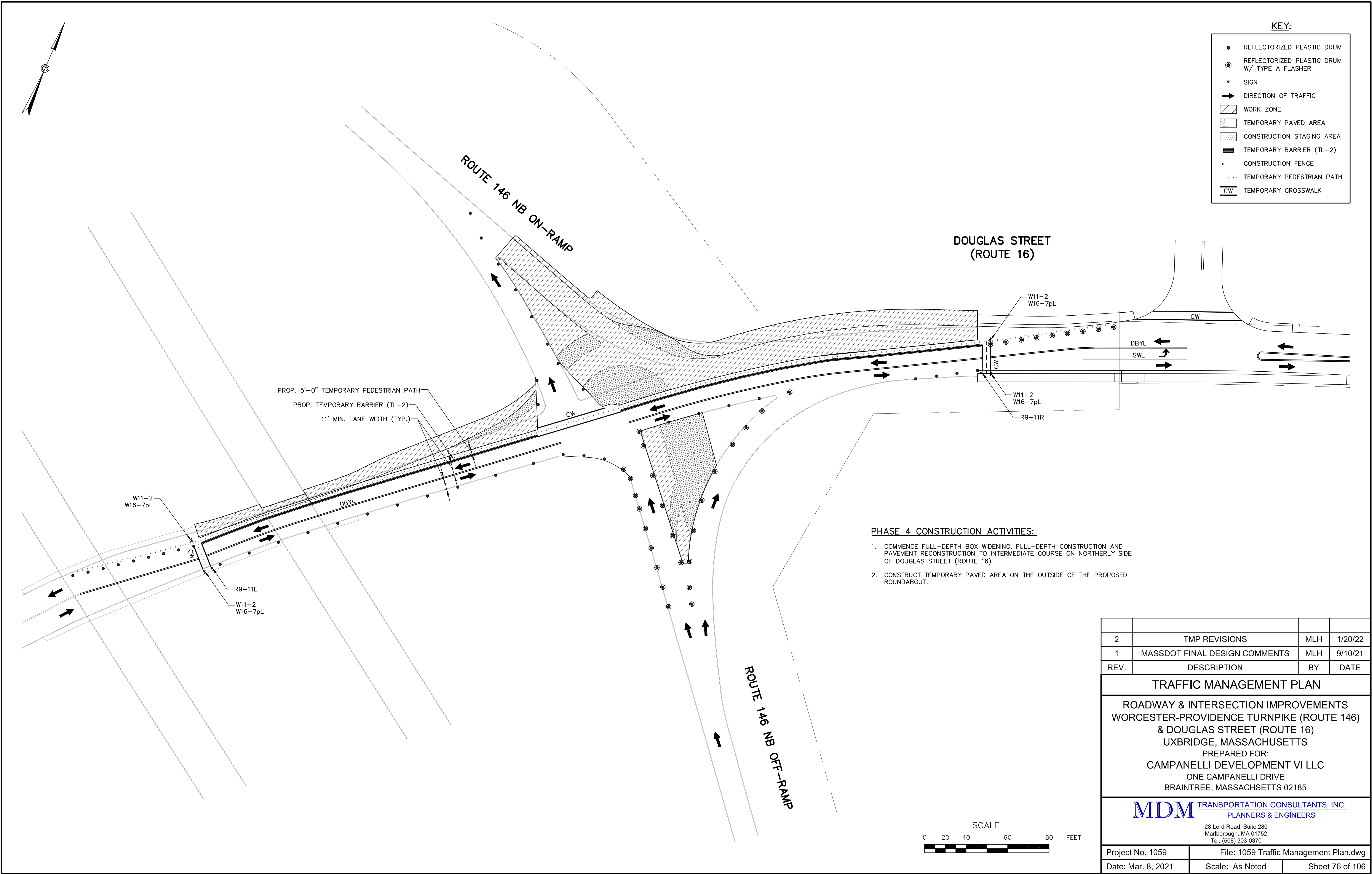
- PHASE 2 CONSTRUCTION ACTIVITIES:**
1. COMMENCE FULL-DEPTH BOX WIDENING, FULL-DEPTH CONSTRUCTION AND PAVEMENT RECONSTRUCTION TO INTERMEDIATE COURSE ON SOUTHERLY SIDE OF DOUGLAS STREET (ROUTE 16).

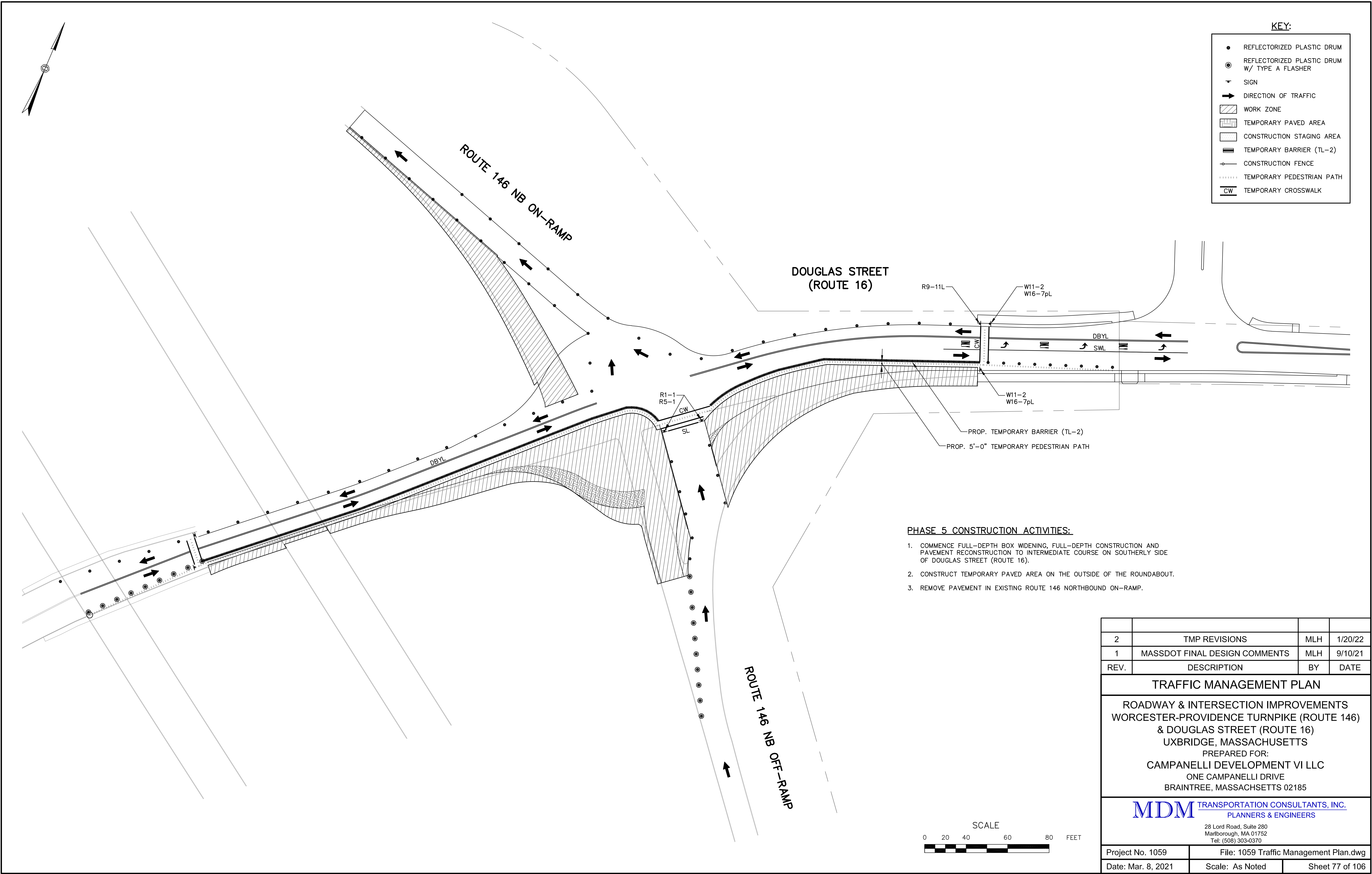
2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
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Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 74 of 106



- PHASE 3 CONSTRUCTION ACTIVITIES:**
1. COMMENCE FULL DEPTH-BOX WIDENING, FULL-DEPTH CONSTRUCTION AND TEMPORARY PAVED AREAS TO INTERMEDIATE COURSE.

2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 75 of 106

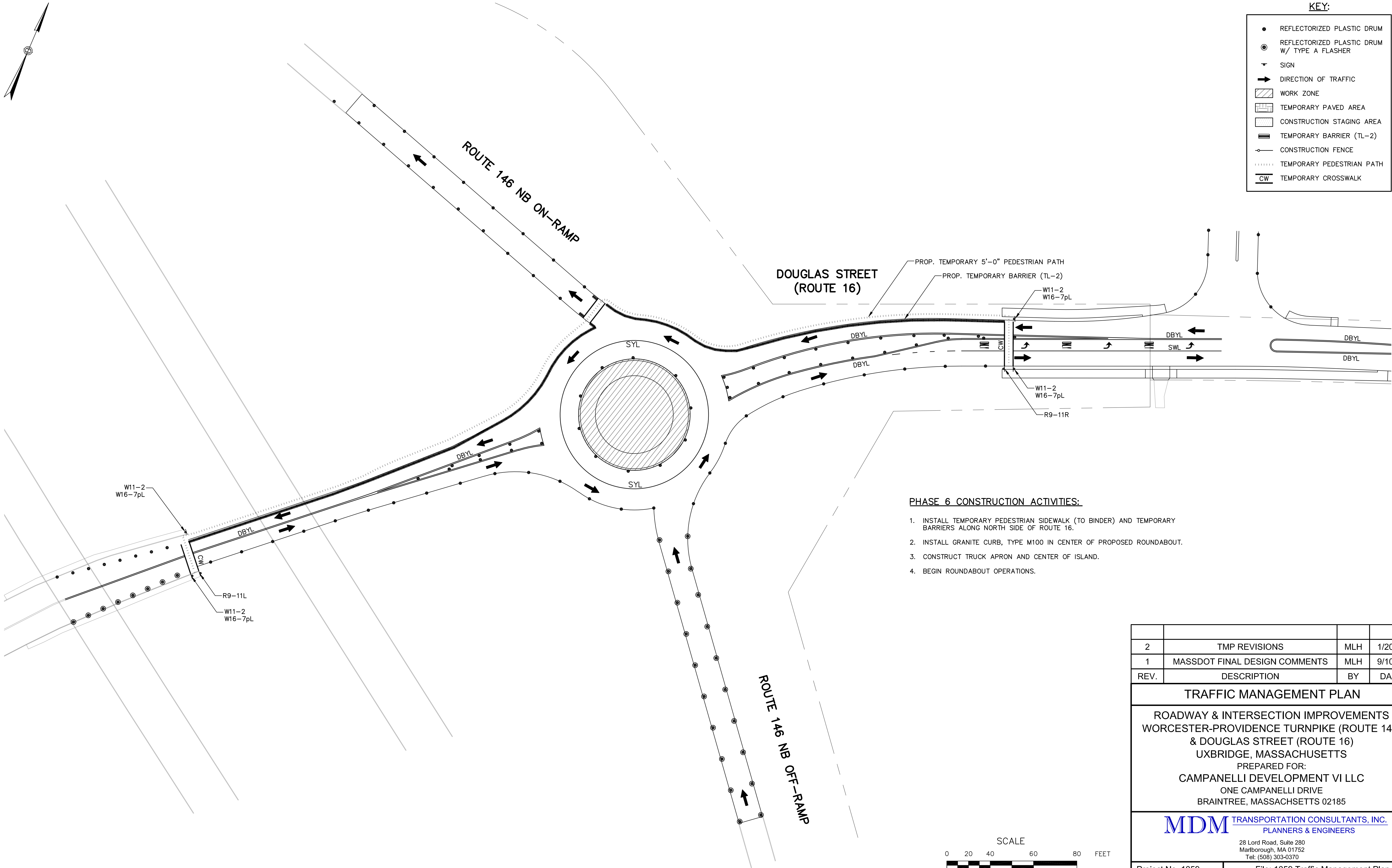




**PHASE 5 CONSTRUCTION ACTIVITIES:**

1. COMMENCE FULL-DEPTH BOX WIDENING, FULL-DEPTH CONSTRUCTION AND PAVEMENT RECONSTRUCTION TO INTERMEDIATE COURSE ON SOUTHERLY SIDE OF DOUGLAS STREET (ROUTE 16).
2. CONSTRUCT TEMPORARY PAVED AREA ON THE OUTSIDE OF THE ROUNDABOUT.
3. REMOVE PAVEMENT IN EXISTING ROUTE 146 NORTHBOUND ON-RAMP.

2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 77 of 106

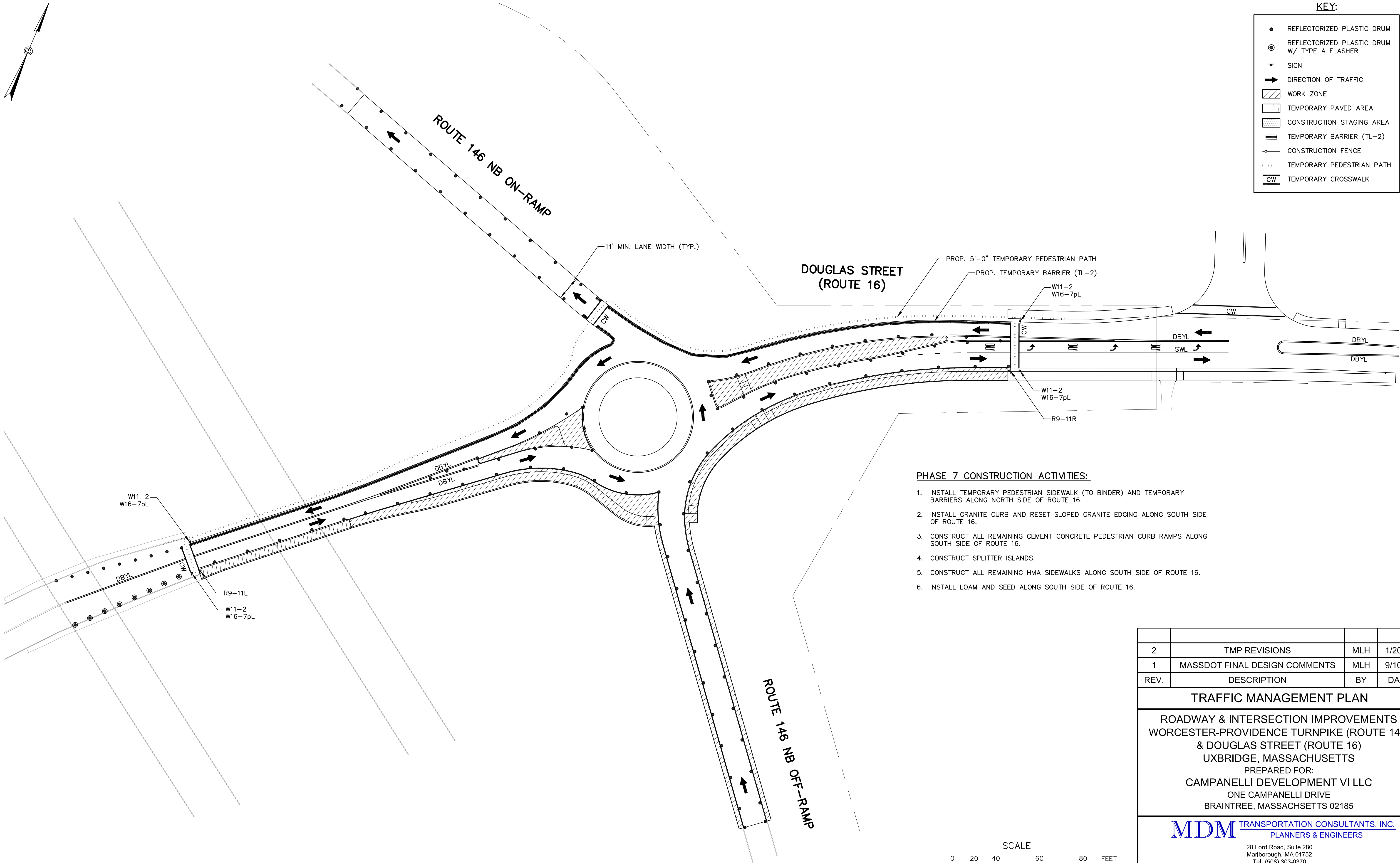
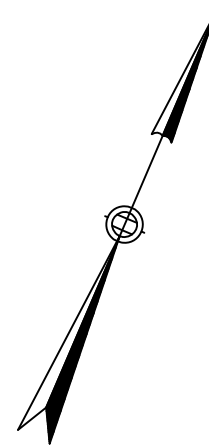


**PHASE 6 CONSTRUCTION ACTIVITIES:**

1. INSTALL TEMPORARY PEDESTRIAN SIDEWALK (TO BINDER) AND TEMPORARY BARRIERS ALONG NORTH SIDE OF ROUTE 16.
2. INSTALL GRANITE CURB, TYPE M100 IN CENTER OF PROPOSED ROUNDABOUT.
3. CONSTRUCT TRUCK APRON AND CENTER OF ISLAND.
4. BEGIN ROUNDABOUT OPERATIONS.



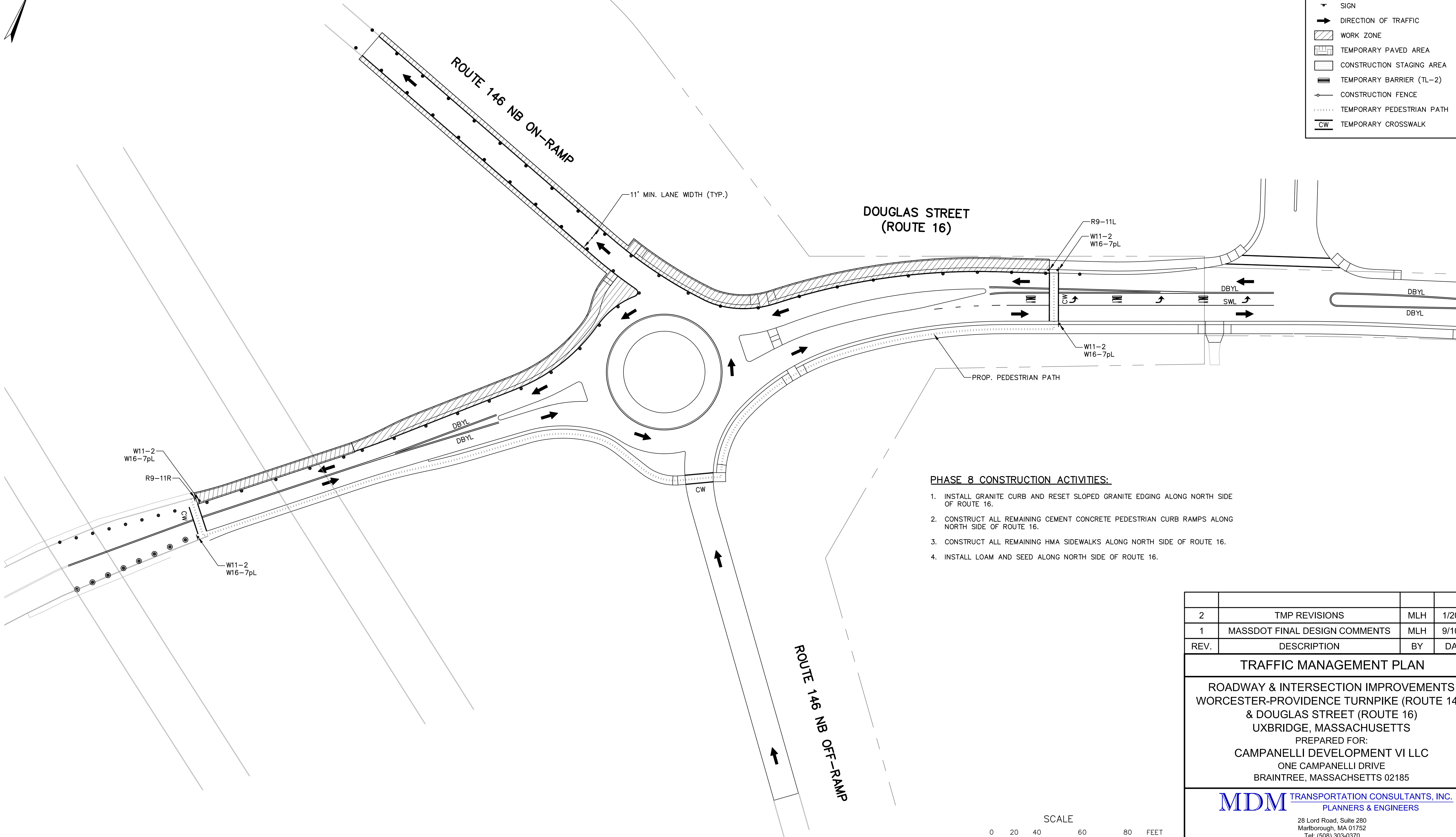
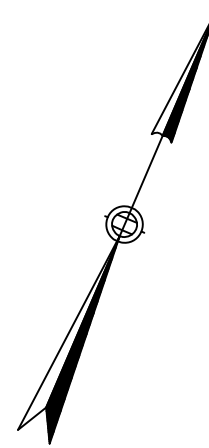
2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 78 of 106



**PHASE 7 CONSTRUCTION ACTIVITIES:**

1. INSTALL TEMPORARY PEDESTRIAN SIDEWALK (TO BINDER) AND TEMPORARY BARRIERS ALONG NORTH SIDE OF ROUTE 16.
2. INSTALL GRANITE CURB AND RESET SLOPED GRANITE EDGING ALONG SOUTH SIDE OF ROUTE 16.
3. CONSTRUCT ALL REMAINING CEMENT CONCRETE PEDESTRIAN CURB RAMPS ALONG SOUTH SIDE OF ROUTE 16.
4. CONSTRUCT SPLITTER ISLANDS.
5. CONSTRUCT ALL REMAINING HMA SIDEWALKS ALONG SOUTH SIDE OF ROUTE 16.
6. INSTALL LOAM AND SEED ALONG SOUTH SIDE OF ROUTE 16.

2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 79 of 106



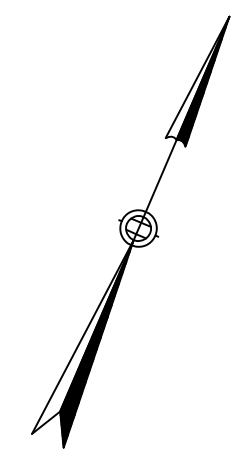
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	REFLECTORIZED PLASTIC DRUM W/ TYPE A FLASHER
	SIGN
	DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVED AREA
	CONSTRUCTION STAGING AREA
	TEMPORARY BARRIER (TL-2)
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN PATH
	TEMPORARY CROSSWALK

PHASE 8 CONSTRUCTION ACTIVITIES:

1. INSTALL GRANITE CURB AND RESET SLOPED GRANITE EDGING ALONG NORTH SIDE OF ROUTE 16.
2. CONSTRUCT ALL REMAINING CEMENT CONCRETE PEDESTRIAN CURB RAMPS ALONG NORTH SIDE OF ROUTE 16.
3. CONSTRUCT ALL REMAINING HMA SIDEWALKS ALONG NORTH SIDE OF ROUTE 16.
4. INSTALL LOAM AND SEED ALONG NORTH SIDE OF ROUTE 16.



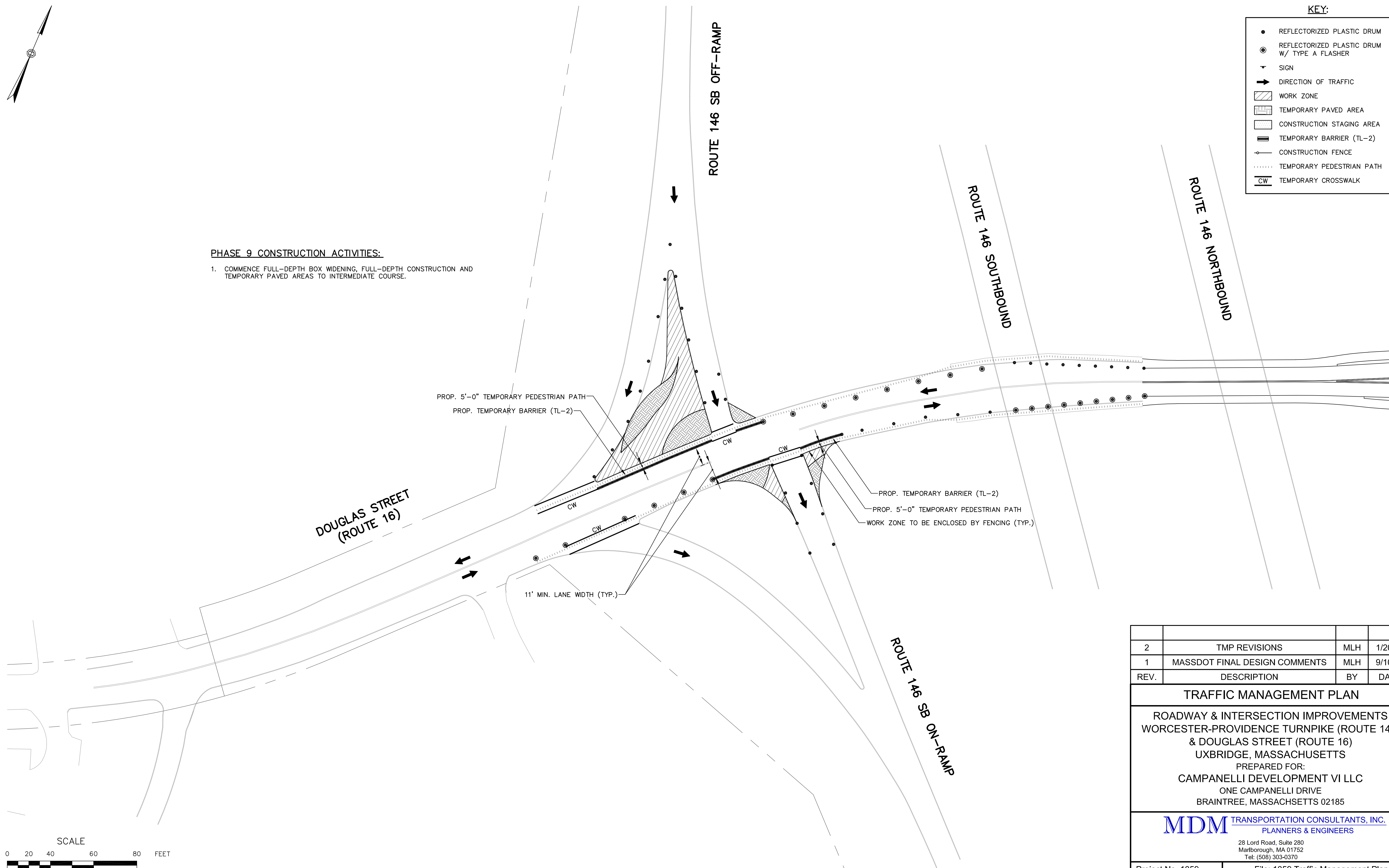
2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 80 of 106



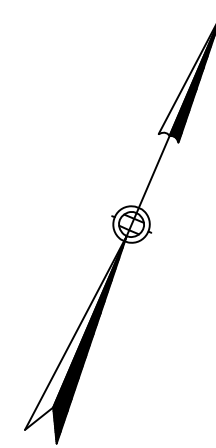
**PHASE 9 CONSTRUCTION ACTIVITIES:**

1. COMMENCE FULL-DEPTH BOX WIDENING, FULL-DEPTH CONSTRUCTION AND TEMPORARY PAVED AREAS TO INTERMEDIATE COURSE.

KEY:	
	REFLECTORIZED PLASTIC DRUM
	REFLECTORIZED PLASTIC DRUM W/ TYPE A FLASHER
	SIGN
	DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVED AREA
	CONSTRUCTION STAGING AREA
	TEMPORARY BARRIER (TL-2)
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN PATH
	TEMPORARY CROSSWALK



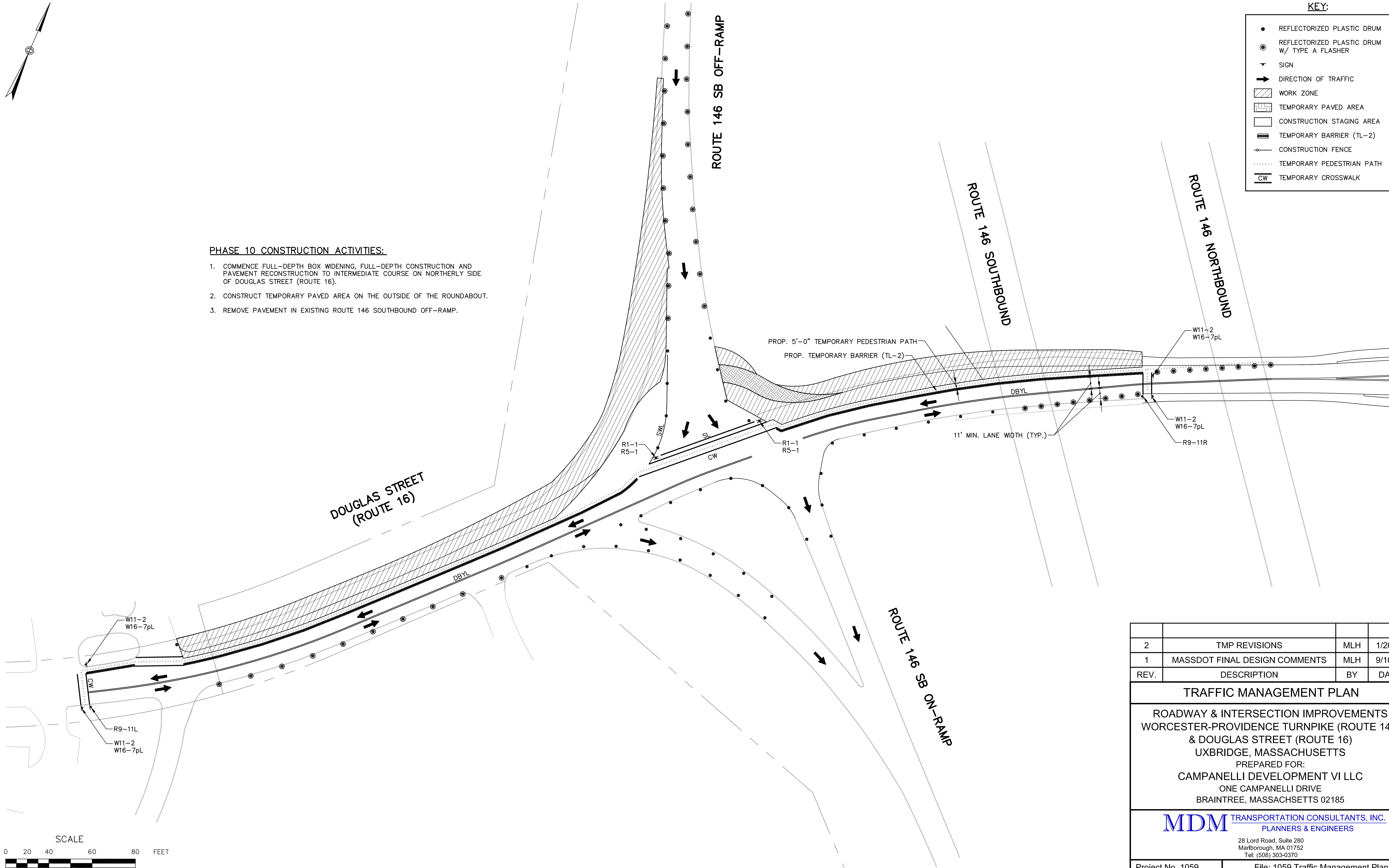
2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS <small>28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370</small>			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 81 of 106



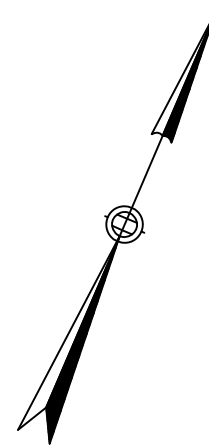
**PHASE 10 CONSTRUCTION ACTIVITIES:**

1. COMMENCE FULL-DEPTH BOX WIDENING, FULL-DEPTH CONSTRUCTION AND PAVEMENT RECONSTRUCTION TO INTERMEDIATE COURSE ON NORTHERLY SIDE OF DOUGLAS STREET (ROUTE 16).
2. CONSTRUCT TEMPORARY PAVED AREA ON THE OUTSIDE OF THE ROUNDABOUT.
3. REMOVE PAVEMENT IN EXISTING ROUTE 146 SOUTHBOUND OFF-RAMP.

KEY:	
	REFLECTORIZED PLASTIC DRUM
	REFLECTORIZED PLASTIC DRUM W/ TYPE A FLASHER
	SIGN
	DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVED AREA
	CONSTRUCTION STAGING AREA
	TEMPORARY BARRIER (TL-2)
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN PATH
	TEMPORARY CROSSWALK



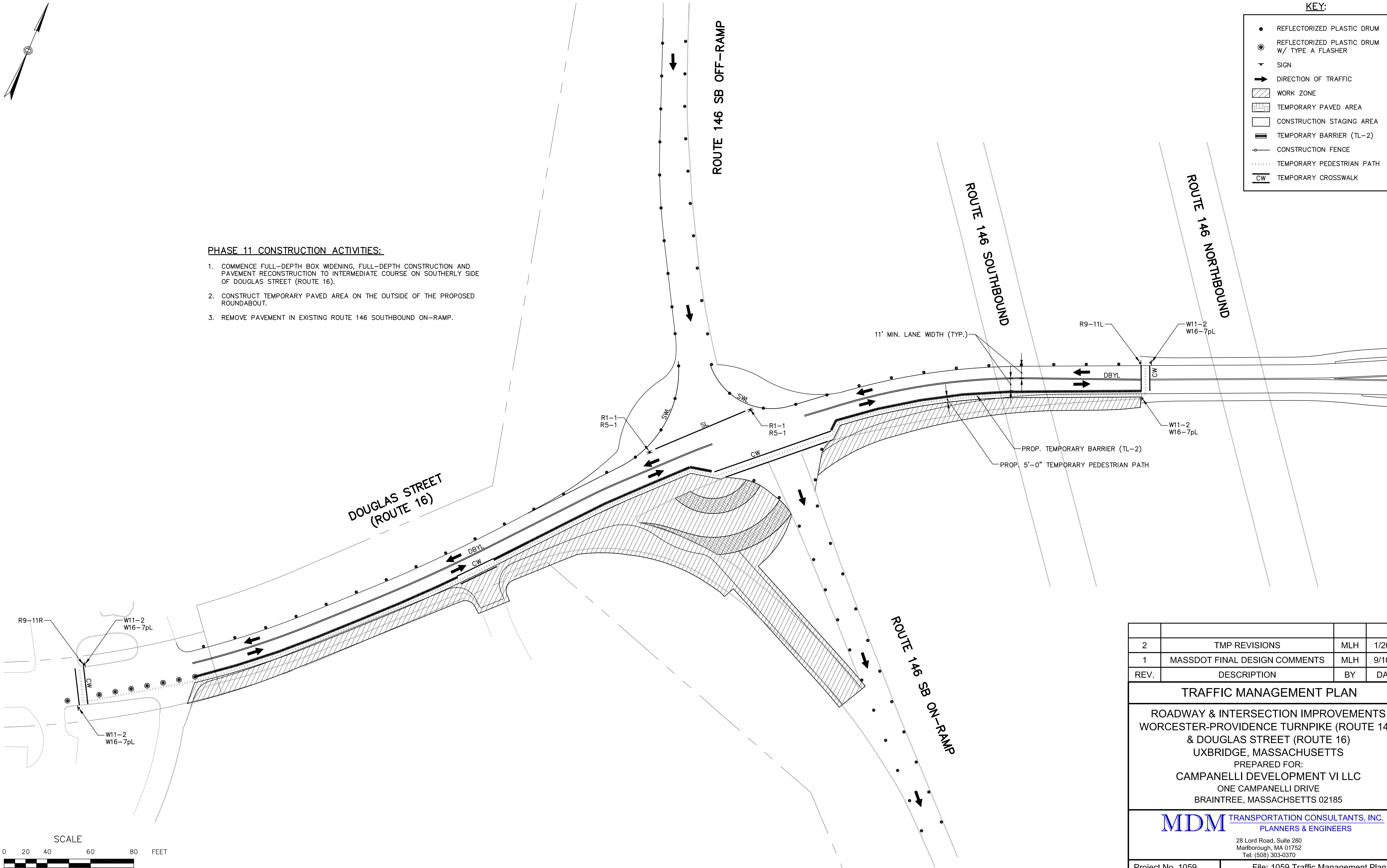
2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 82 of 106



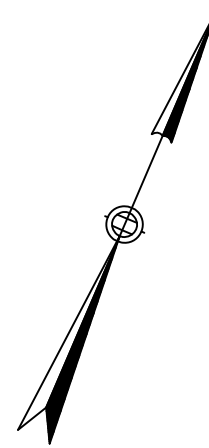
**PHASE 11 CONSTRUCTION ACTIVITIES:**

1. COMMENCE FULL-DEPTH BOX WIDENING, FULL-DEPTH CONSTRUCTION AND PAVEMENT RECONSTRUCTION TO INTERMEDIATE COURSE ON SOUTHERLY SIDE OF DOUGLAS STREET (ROUTE 16).
2. CONSTRUCT TEMPORARY PAVED AREA ON THE OUTSIDE OF THE PROPOSED ROUNDABOUT.
3. REMOVE PAVEMENT IN EXISTING ROUTE 146 SOUTHBOUND ON-RAMP.

KEY:	
	REFLECTORIZED PLASTIC DRUM
	REFLECTORIZED PLASTIC DRUM W/ TYPE A FLASHER
	SIGN
	DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVED AREA
	CONSTRUCTION STAGING AREA
	TEMPORARY BARRIER (TL-2)
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN PATH
	TEMPORARY CROSSWALK



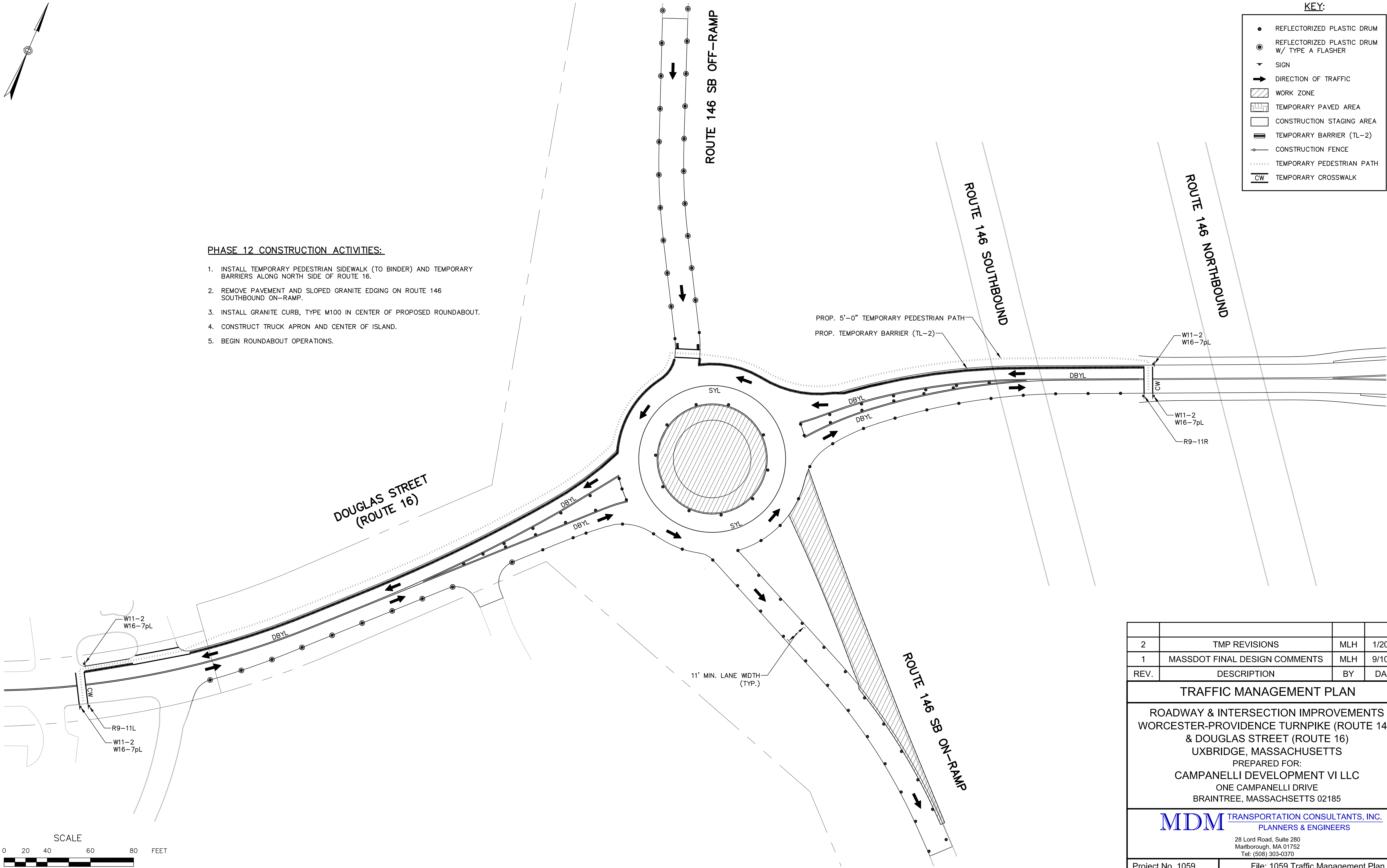
2	TMP REVISIONS	MLH	1/20/22
1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 83 of 106



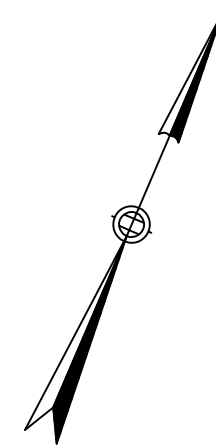
**PHASE 12 CONSTRUCTION ACTIVITIES:**

1. INSTALL TEMPORARY PEDESTRIAN SIDEWALK (TO BINDER) AND TEMPORARY BARRIERS ALONG NORTH SIDE OF ROUTE 16.
2. REMOVE PAVEMENT AND SLOPED GRANITE EDGING ON ROUTE 146 SOUTHBOUND ON-RAMP.
3. INSTALL GRANITE CURB, TYPE M100 IN CENTER OF PROPOSED ROUNDABOUT.
4. CONSTRUCT TRUCK APRON AND CENTER OF ISLAND.
5. BEGIN ROUNDABOUT OPERATIONS.

KEY:	
	REFLECTORIZED PLASTIC DRUM
	REFLECTORIZED PLASTIC DRUM W/ TYPE A FLASHER
	SIGN
	DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVED AREA
	CONSTRUCTION STAGING AREA
	TEMPORARY BARRIER (TL-2)
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN PATH
	TEMPORARY CROSSWALK



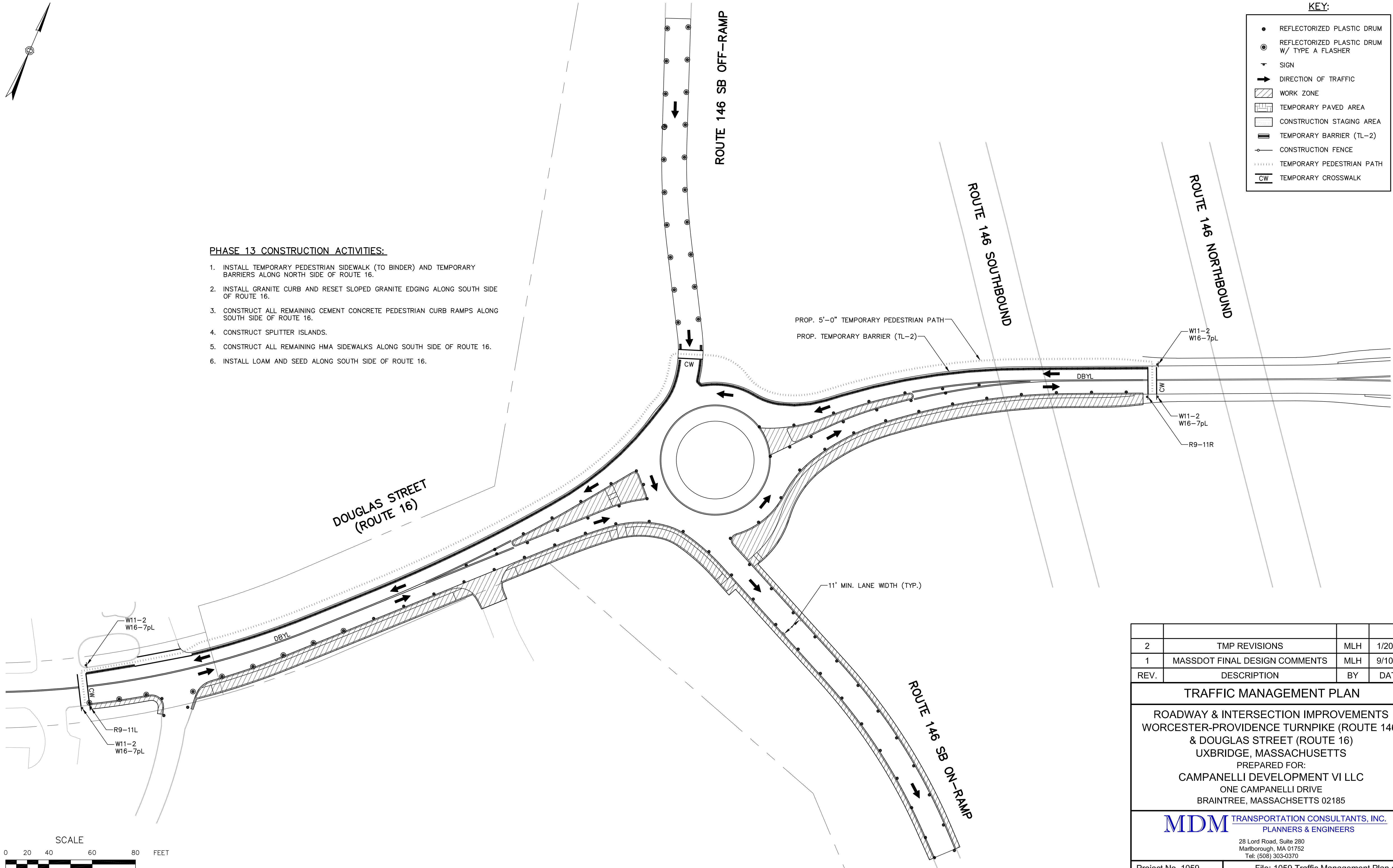
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1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 84 of 106



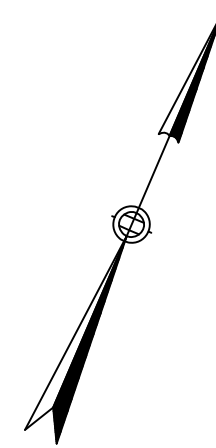
**PHASE 13 CONSTRUCTION ACTIVITIES:**

1. INSTALL TEMPORARY PEDESTRIAN SIDEWALK (TO BINDER) AND TEMPORARY BARRIERS ALONG NORTH SIDE OF ROUTE 16.
2. INSTALL GRANITE CURB AND RESET SLOPED GRANITE EDGING ALONG SOUTH SIDE OF ROUTE 16.
3. CONSTRUCT ALL REMAINING CEMENT CONCRETE PEDESTRIAN CURB RAMPS ALONG SOUTH SIDE OF ROUTE 16.
4. CONSTRUCT SPLITTER ISLANDS.
5. CONSTRUCT ALL REMAINING HMA SIDEWALKS ALONG SOUTH SIDE OF ROUTE 16.
6. INSTALL LOAM AND SEED ALONG SOUTH SIDE OF ROUTE 16.

KEY:	
	REFLECTORIZED PLASTIC DRUM
	REFLECTORIZED PLASTIC DRUM W/ TYPE A FLASHER
	SIGN
	DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVED AREA
	CONSTRUCTION STAGING AREA
	TEMPORARY BARRIER (TL-2)
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN PATH
	TEMPORARY CROSSWALK



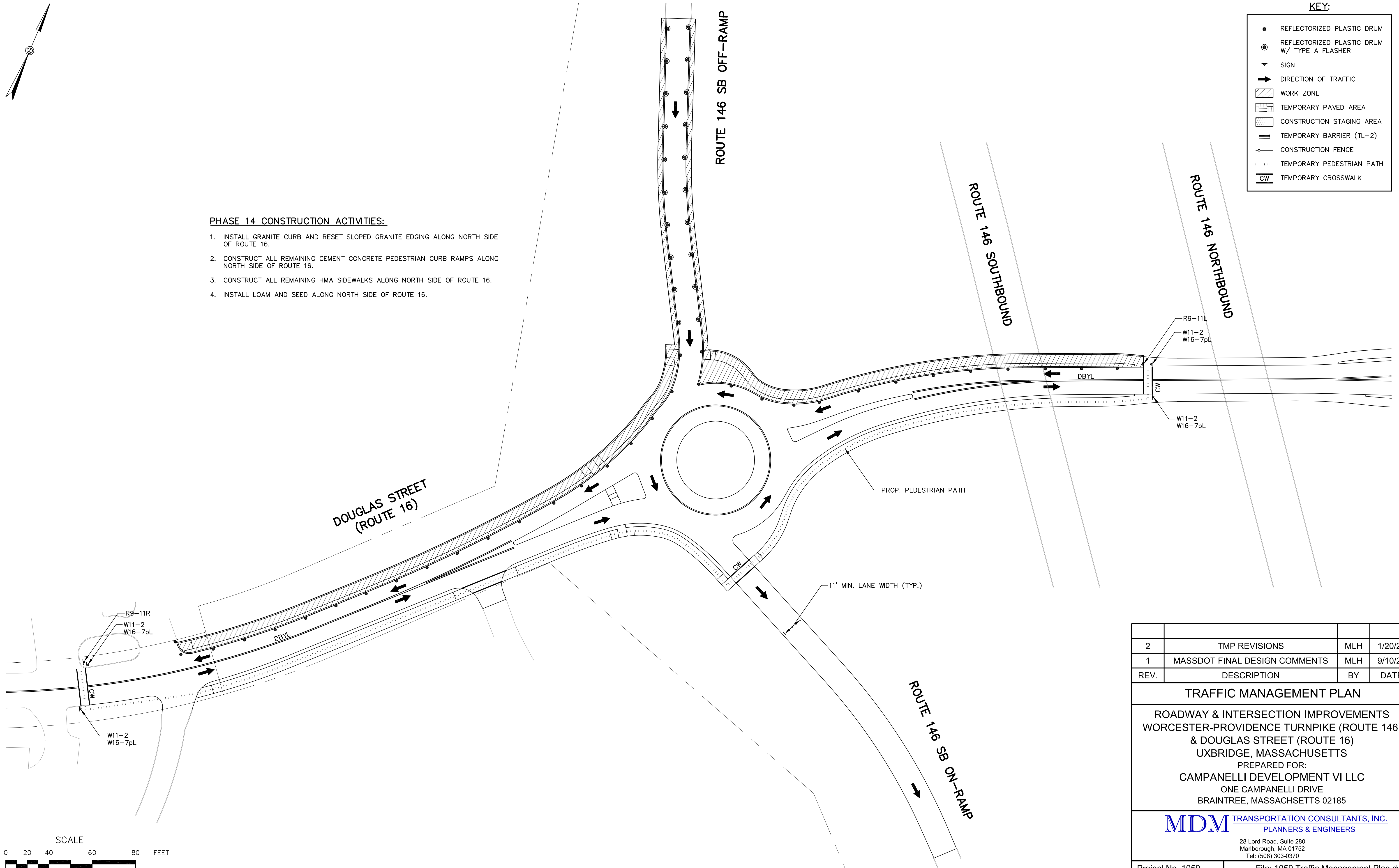
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1	MASSDOT FINAL DESIGN COMMENTS	MLH	9/10/21
REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 85 of 106



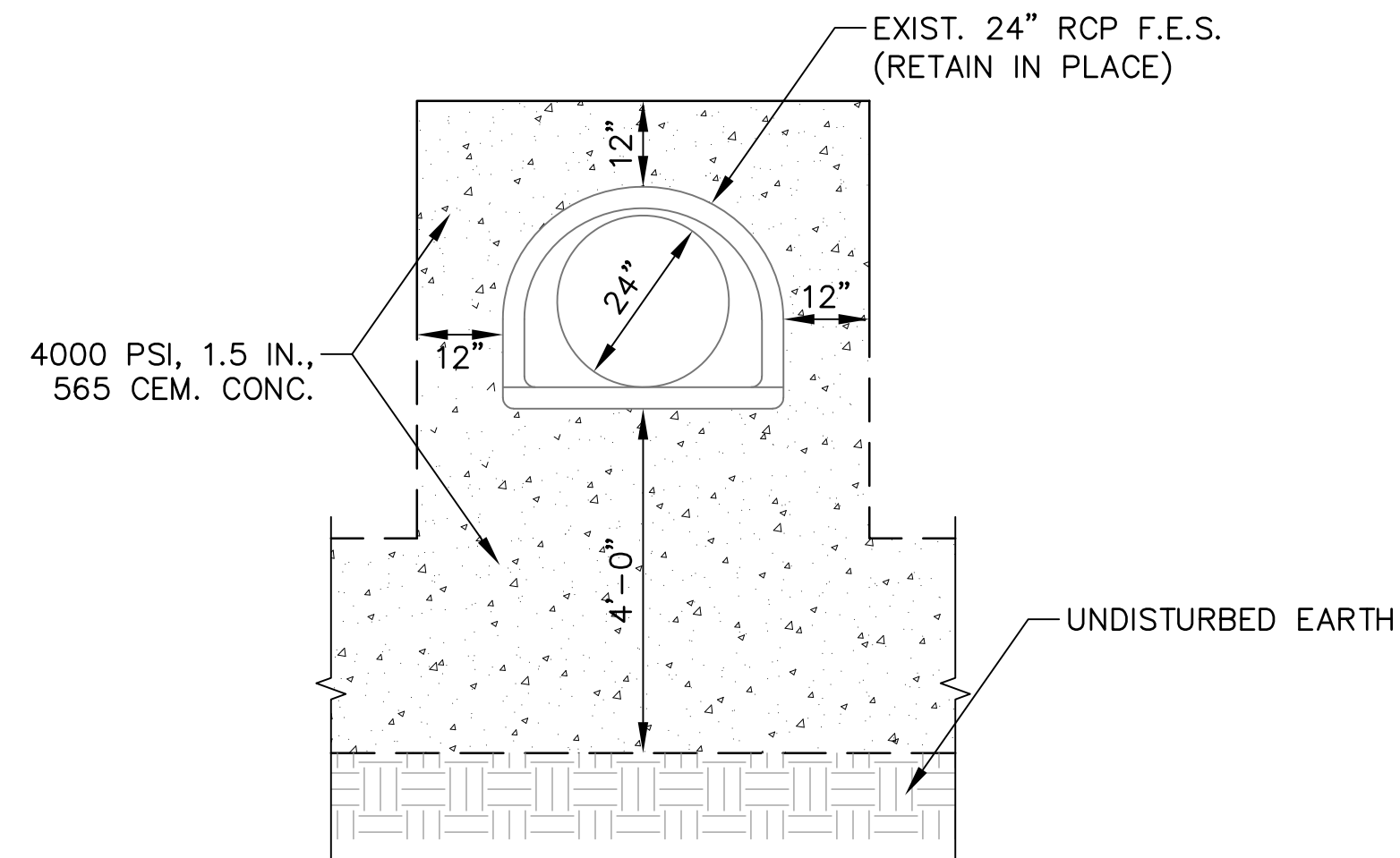
**PHASE 14 CONSTRUCTION ACTIVITIES:**

1. INSTALL GRANITE CURB AND RESET SLOPED GRANITE EDGING ALONG NORTH SIDE OF ROUTE 16.
2. CONSTRUCT ALL REMAINING CEMENT CONCRETE PEDESTRIAN CURB RAMPS ALONG NORTH SIDE OF ROUTE 16.
3. CONSTRUCT ALL REMAINING HMA SIDEWALKS ALONG NORTH SIDE OF ROUTE 16.
4. INSTALL LOAM AND SEED ALONG NORTH SIDE OF ROUTE 16.

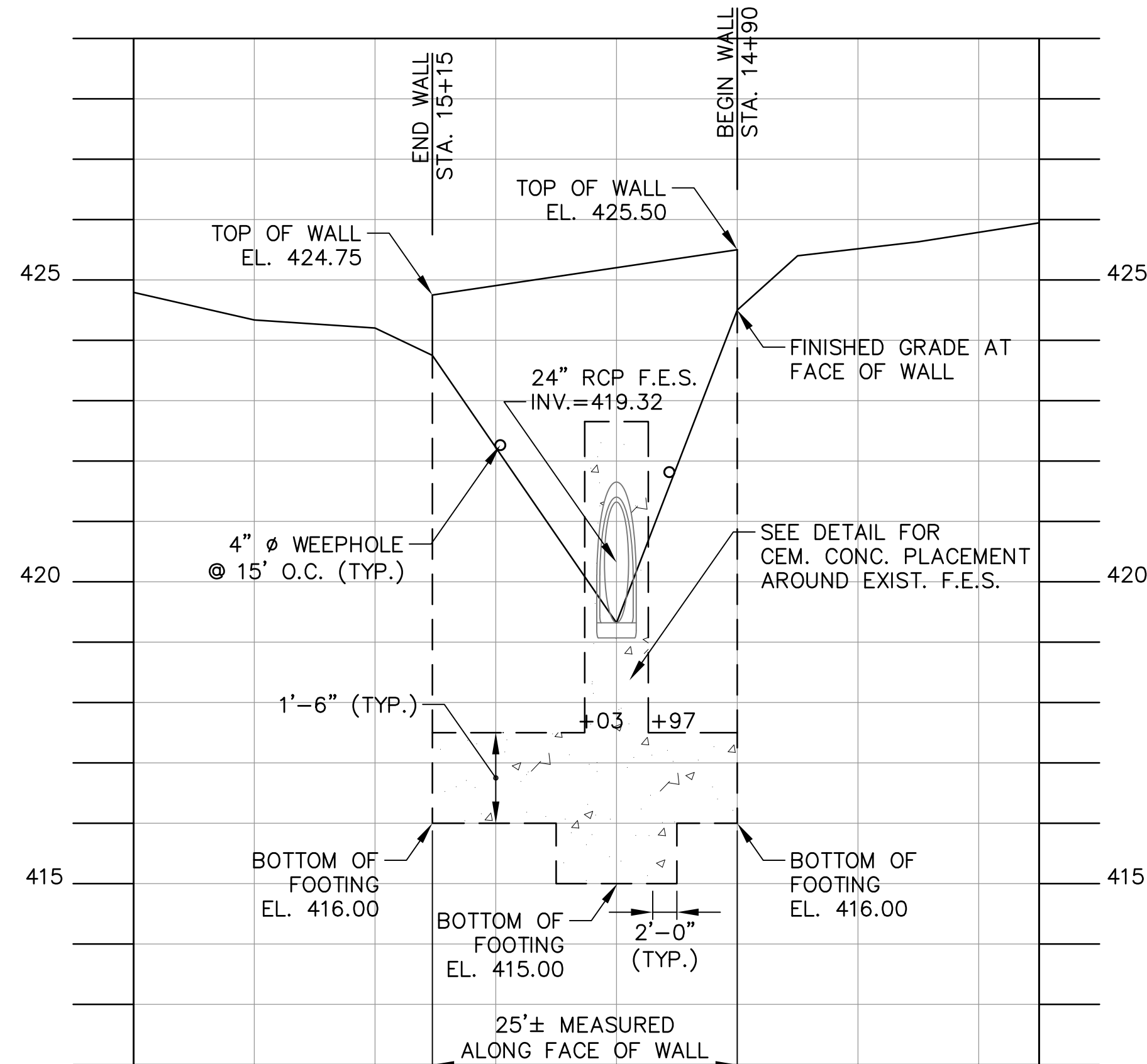
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	SIGN
	DIRECTION OF TRAFFIC
	WORK ZONE
	TEMPORARY PAVED AREA
	CONSTRUCTION STAGING AREA
	TEMPORARY BARRIER (TL-2)
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN PATH
	TEMPORARY CROSSWALK



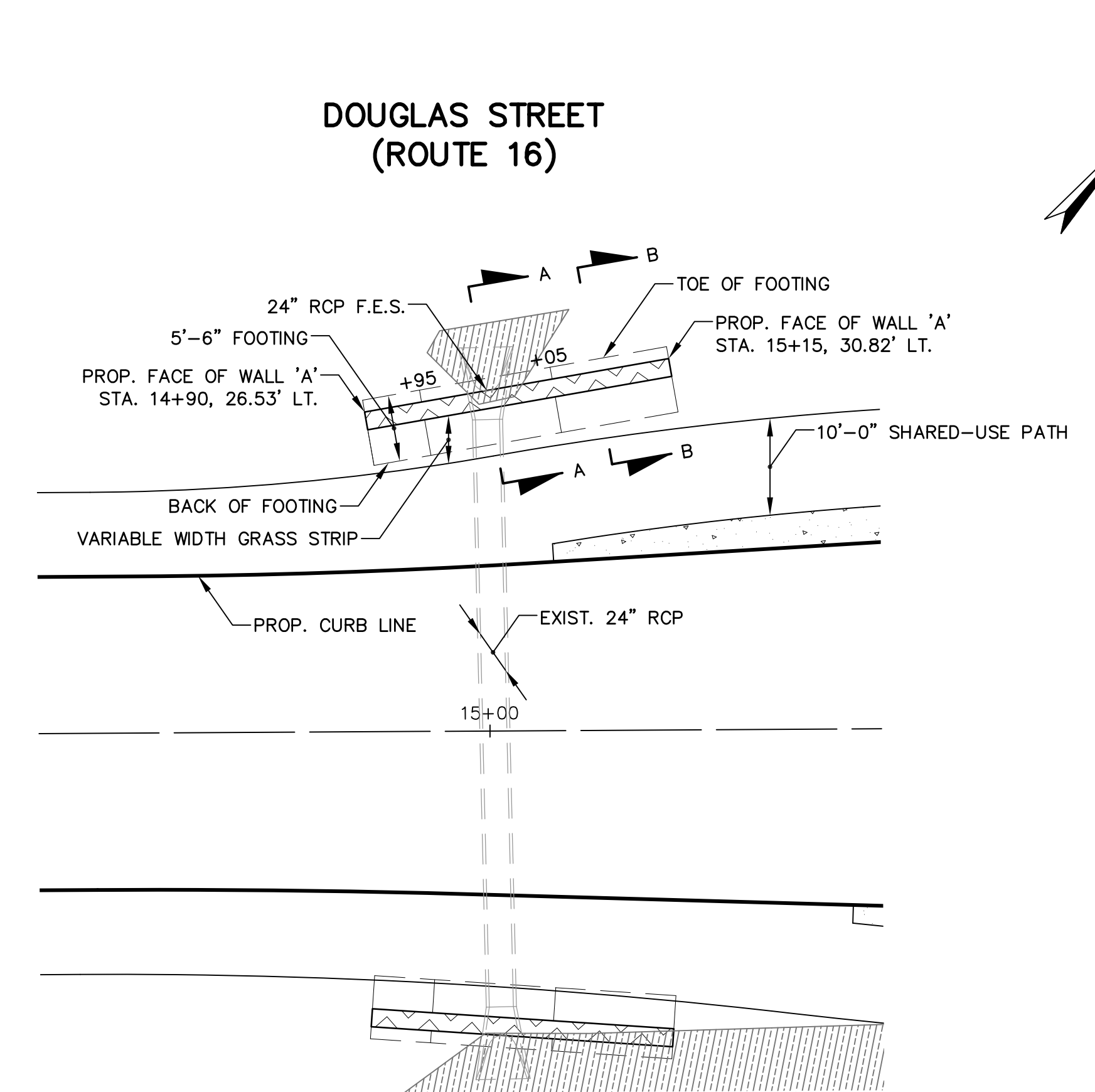
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REV.	DESCRIPTION	BY	DATE
TRAFFIC MANAGEMENT PLAN			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File: 1059 Traffic Management Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 86 of 106



DETAIL FOR CEMENT CONCRETE PLACEMENT  
AROUND EXISTING FLARED-END SECTION (F.E.S.)



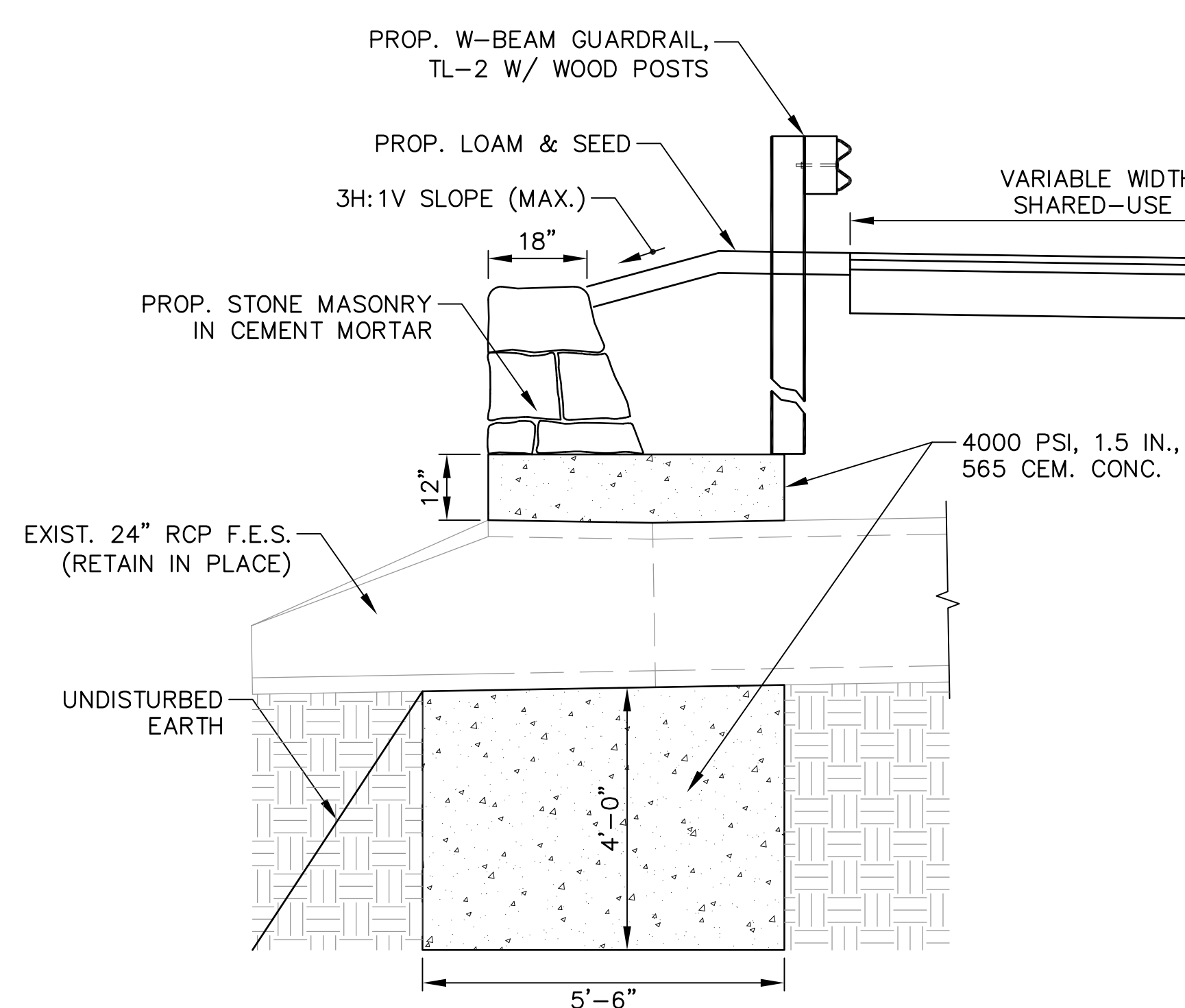
ELEVATION - WALL 'A'



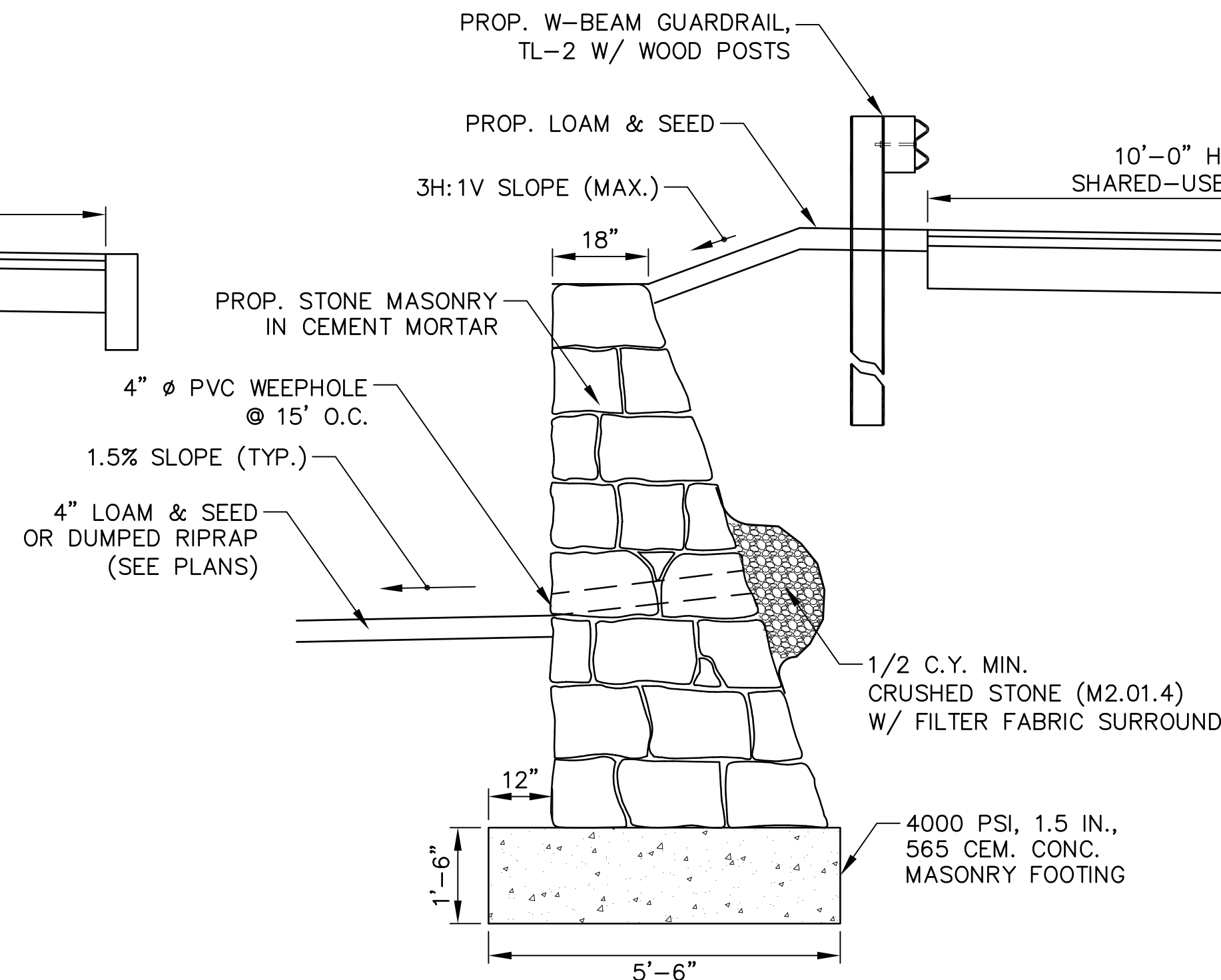
PLAN VIEW - WALL 'A'

NOTES:

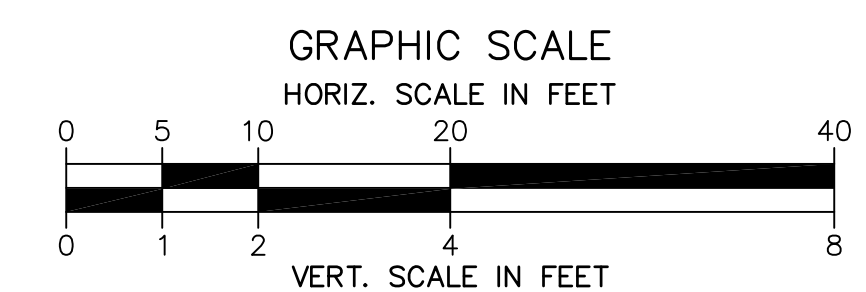
1. ALL SHEETING, SHORING AND/OR BRACING REQUIRED FOR RETAINING WALL CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO CLASS A TRENCH EXCAVATION, WITH NO ADDITIONAL COMPENSATION TO BE MADE.
2. THE SPACING OF JOINTS BETWEEN ADJACENT STONES SHALL BE NO GREATER THAN 1-1/2" IN WIDTH.
3. MORTAR IN JOINTS BETWEEN ADJACENT STONES SHALL BE RECESSED IN FROM THE VERTICAL FACE OF THE WALL AT A MINIMUM OF 2"±.
4. ALL STONE USED FOR STONE MASONRY WALLS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO WALL CONSTRUCTION. THE ENGINEER SHALL CONDUCT SAID INSPECTION AT THE SOURCE OF THE STONE.
5. STONE FOR STONE MASONRY WALL CONSTRUCTION SHALL BE HOMOGENOUS IN COLOR, SIZE AND TEXTURE.



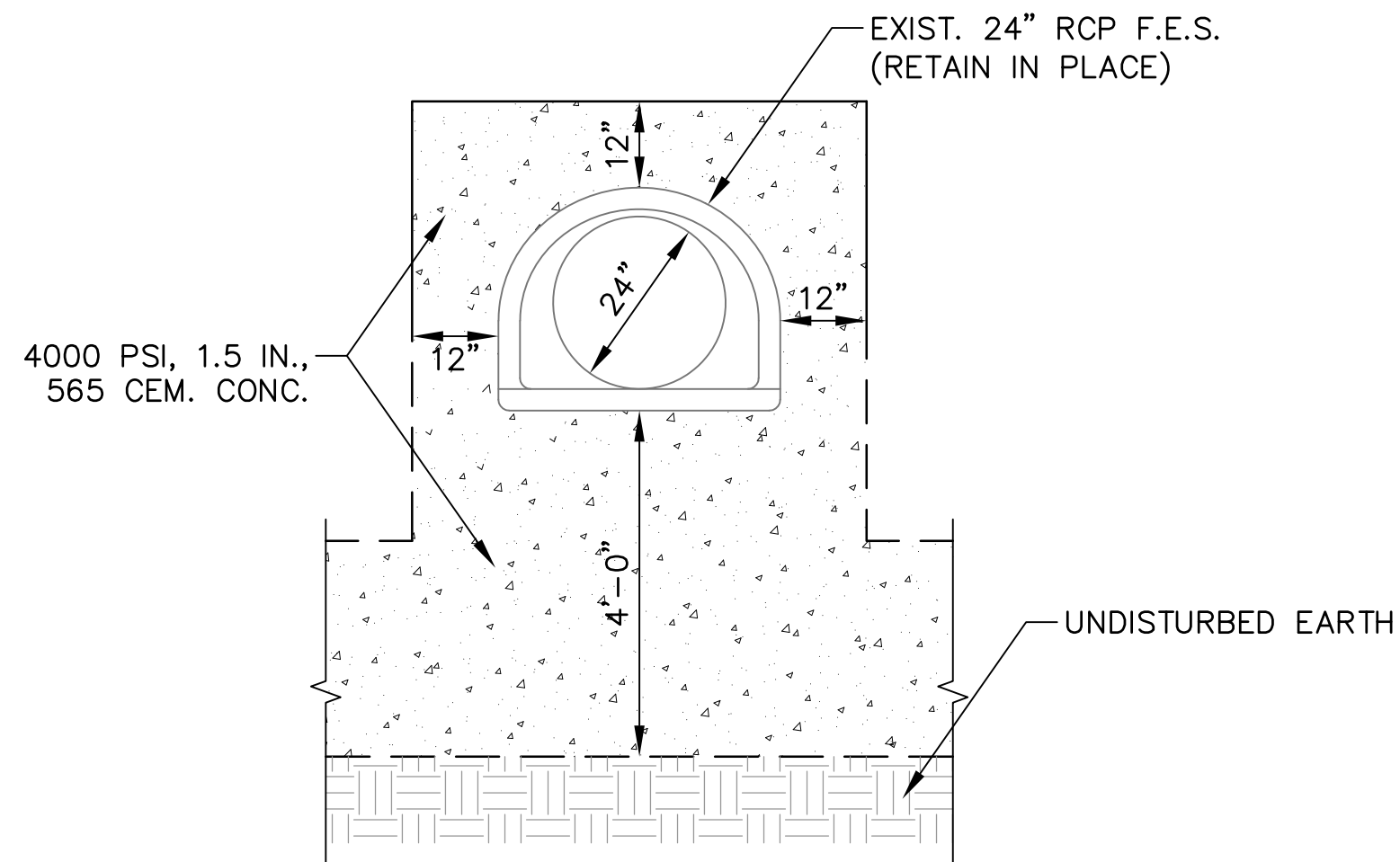
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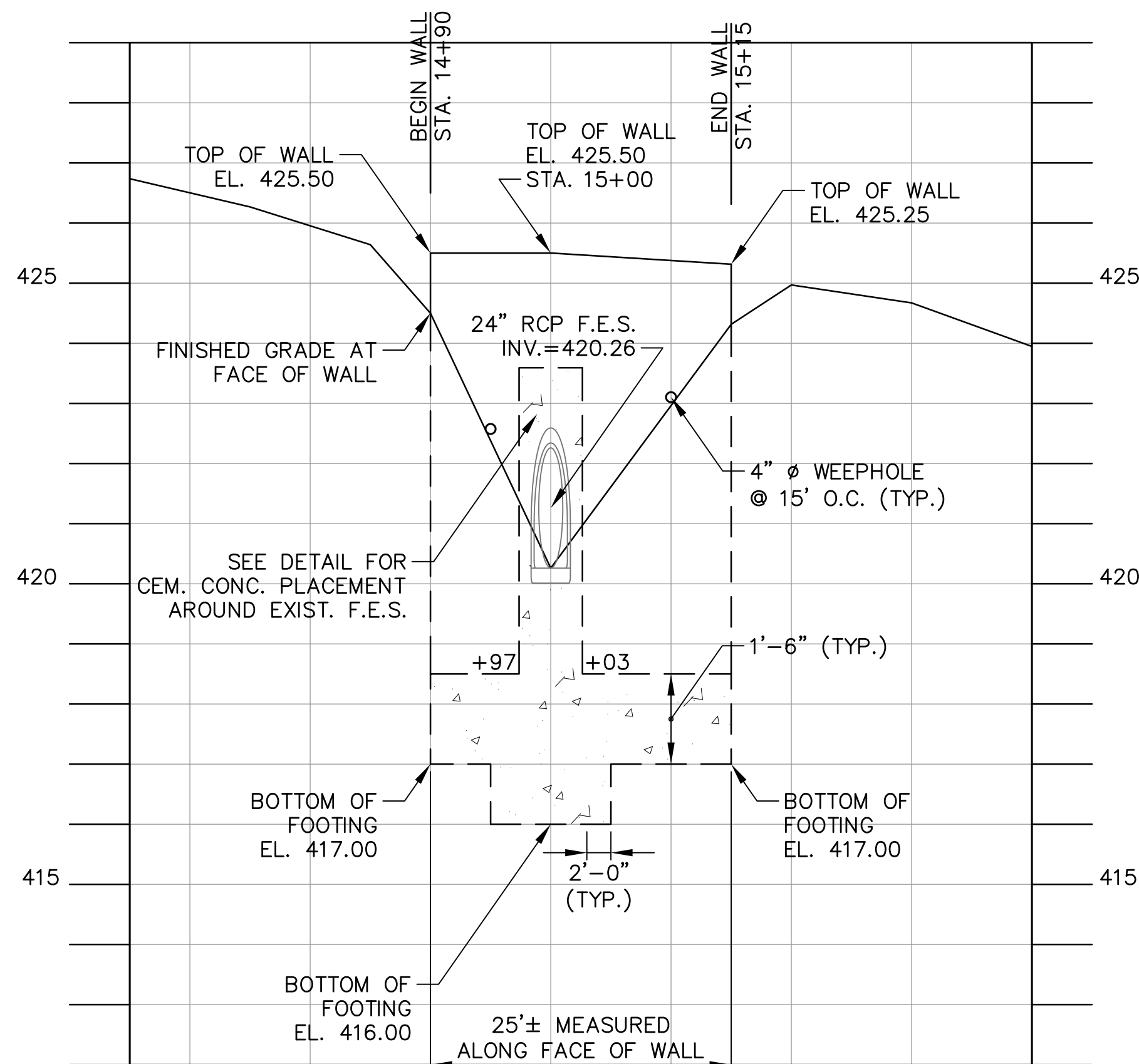
SECTION B-B  
MASSDOT STD. DWG. NO. E 302.2.0  
NOT TO SCALE



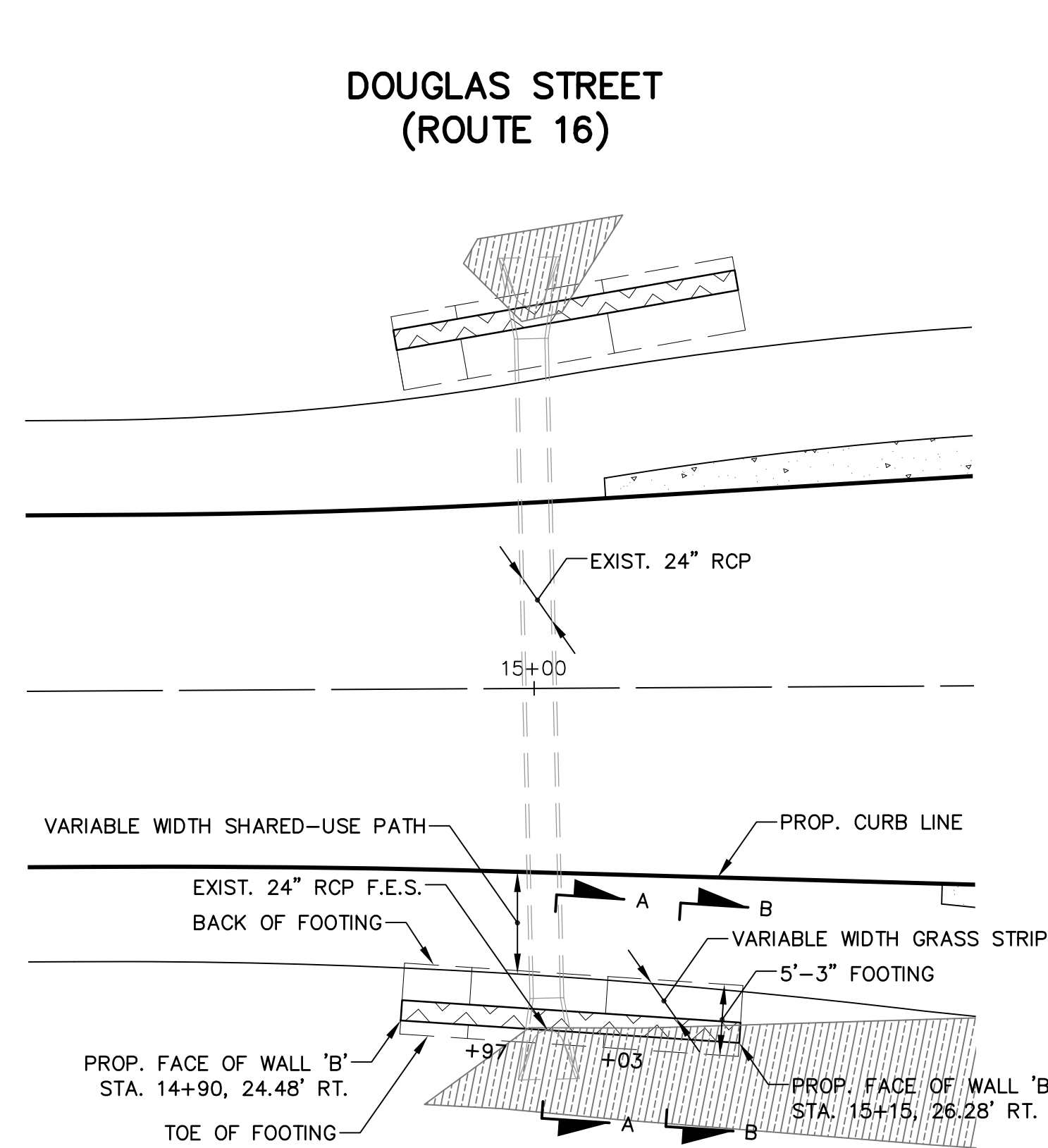
REV.	DESCRIPTION	BY	DATE
RETAINING WALL PLAN - WALL 'A'			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Retaining Wall Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 87 of 106



DETAIL FOR CEMENT CONCRETE PLACEMENT  
AROUND EXISTING FLARED-END SECTION (F.E.S.)



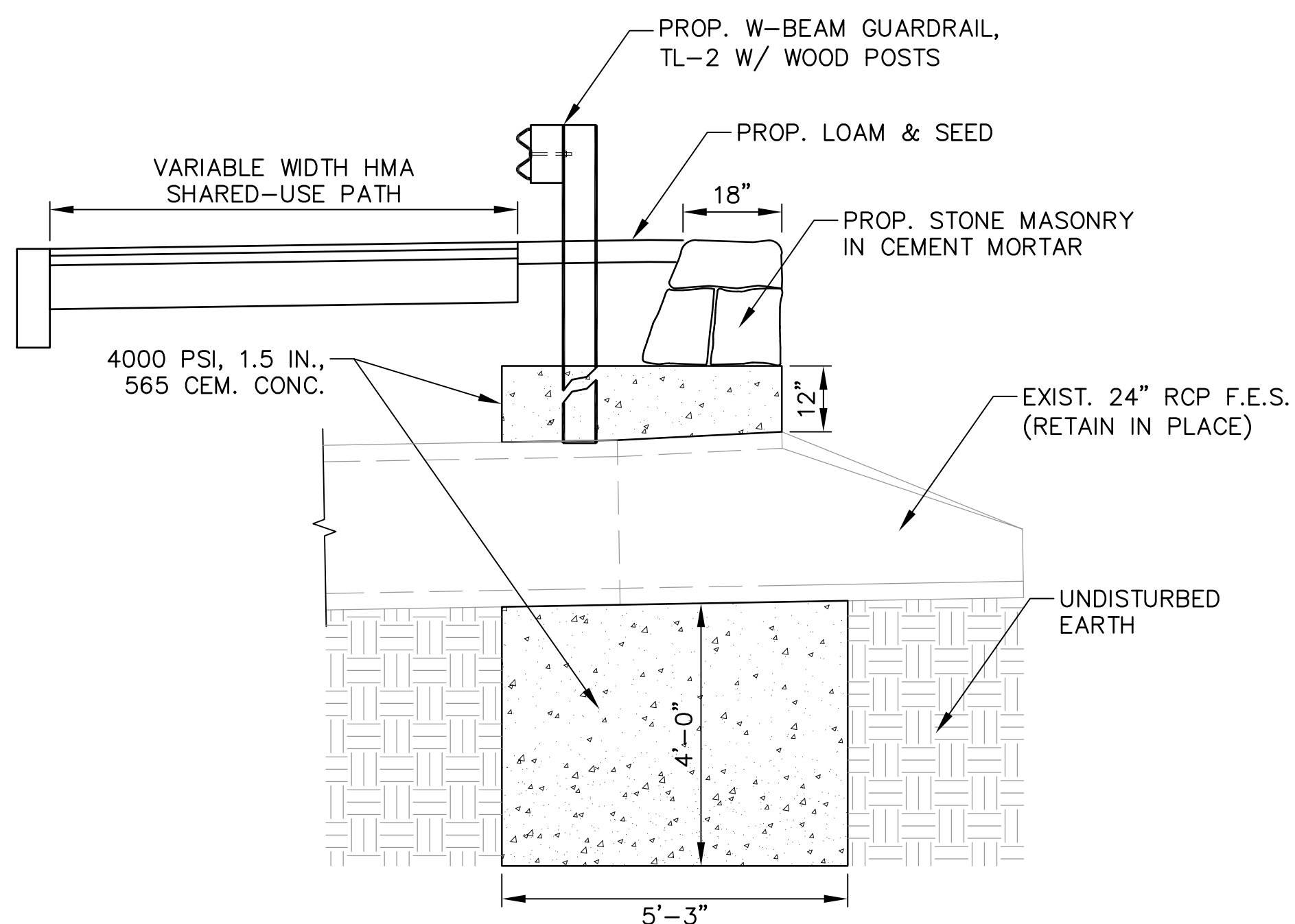
ELEVATION - WALL 'B'



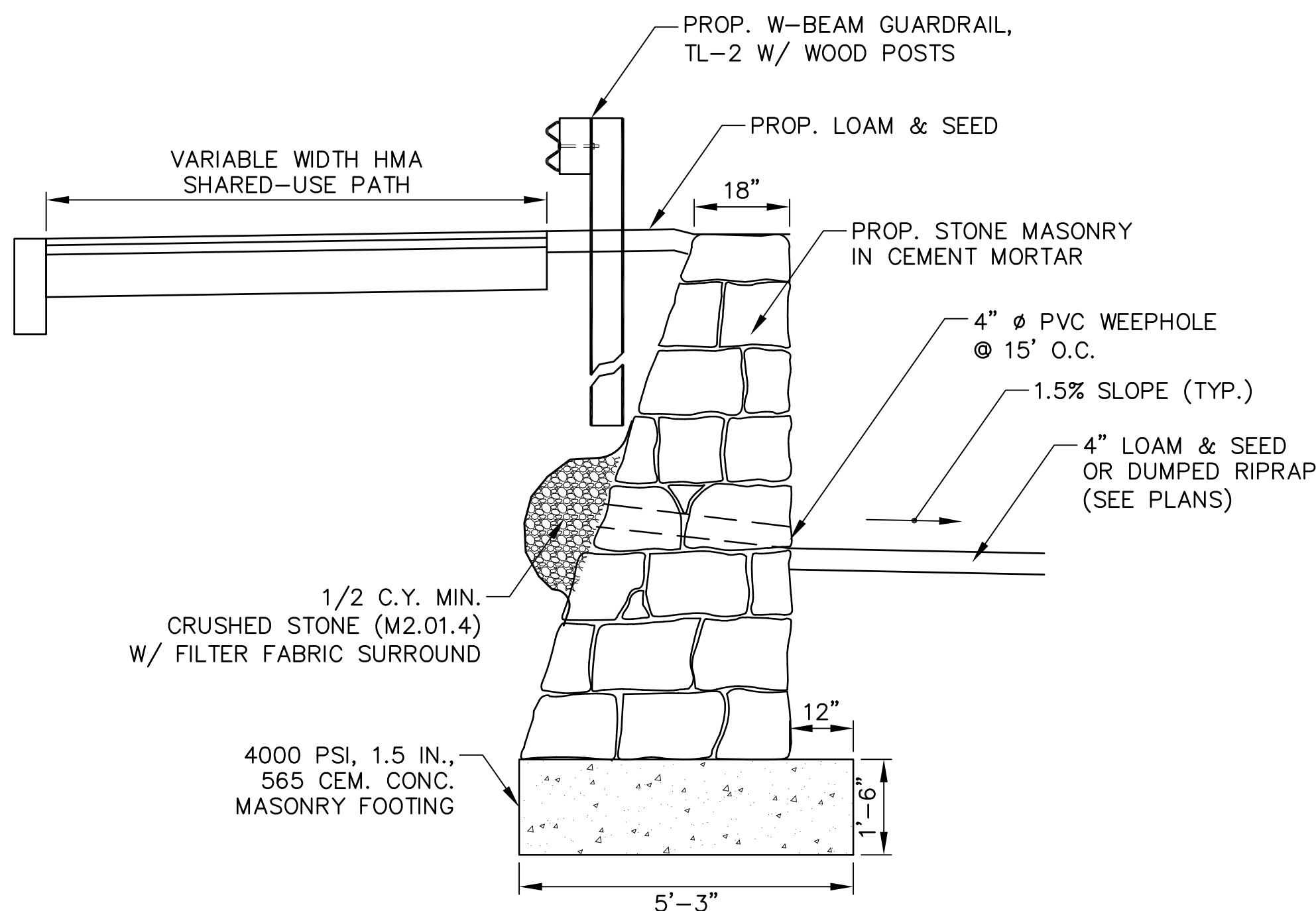
PLAN VIEW - WALL 'B'

NOTES:

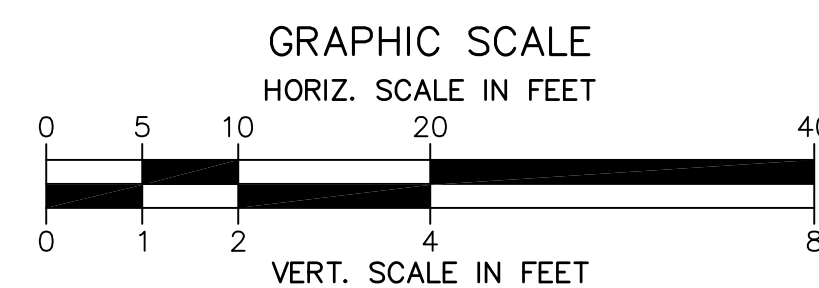
- ALL SHEETING, SHORING AND/OR BRACING REQUIRED FOR RETAINING WALL CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO CLASS A TRENCH EXCAVATION, WITH NO ADDITIONAL COMPENSATION TO BE MADE.
- THE SPACING OF JOINTS BETWEEN ADJACENT STONES SHALL BE NO GREATER THAN 1-1/2" IN WIDTH.
- MORTAR IN JOINTS BETWEEN ADJACENT STONES SHALL BE RECESSED IN FROM THE VERTICAL FACE OF THE WALL AT A MINIMUM OF 2"±.
- ALL STONE USED FOR STONE MASONRY WALLS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO WALL CONSTRUCTION. THE ENGINEER SHALL CONDUCT SAID INSPECTION AT THE SOURCE OF THE STONE.
- STONE FOR STONE MASONRY WALL CONSTRUCTION SHALL BE HOMOGENOUS IN COLOR, SIZE AND TEXTURE.



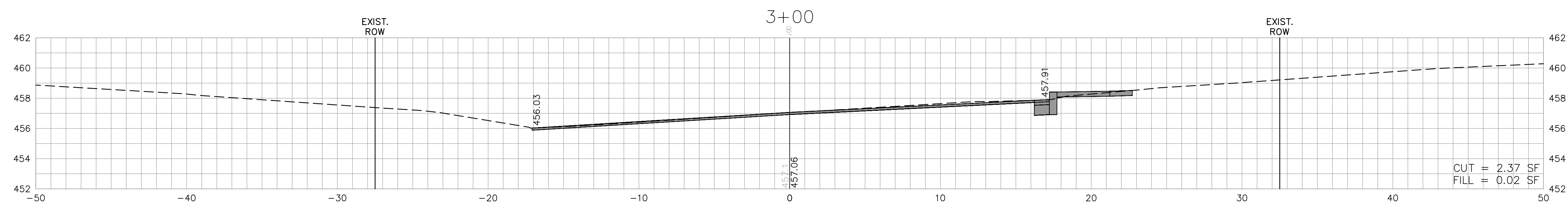
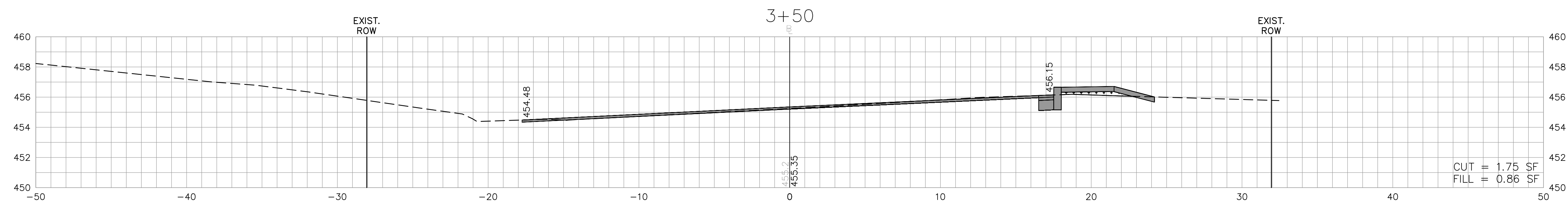
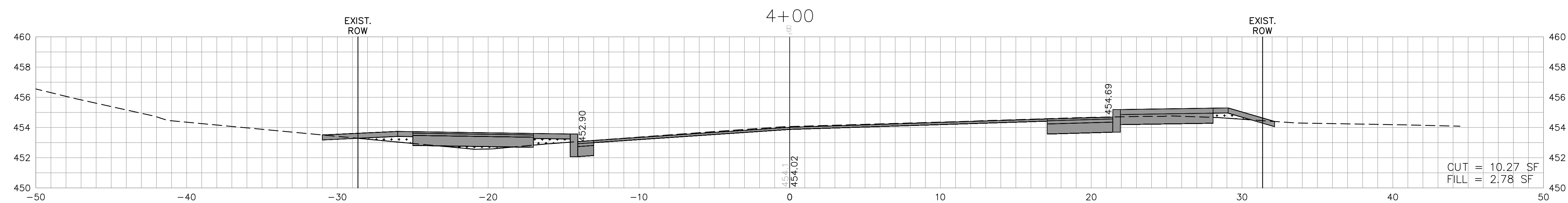
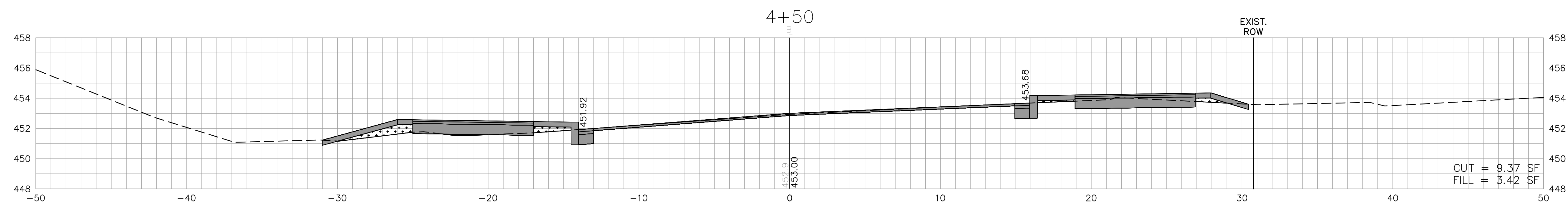
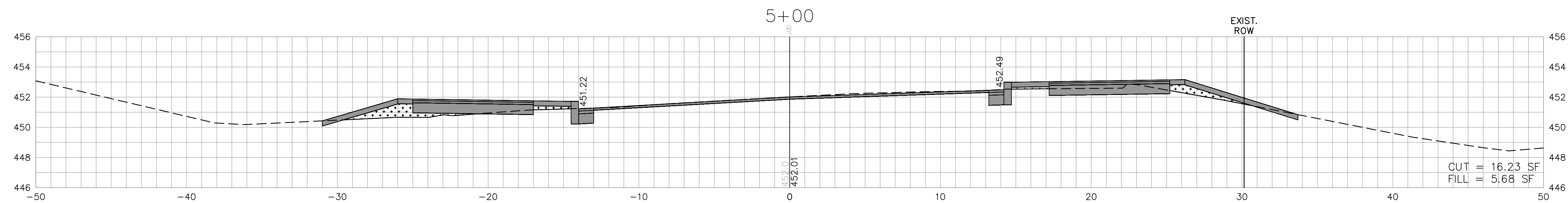
SECTION A-A  
MASSDOT STD. DWG. NO. E 302.2.0  
NOT TO SCALE






SECTION B-B  
MASSDOT STD. DWG. NO. E 302.2.0  
NOT TO SCALE



REV.	DESCRIPTION	BY	DATE
RETAINING WALL PLAN - WALL 'B'			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
<b>MDM</b> TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Retaining Wall Plan.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 88 of 106

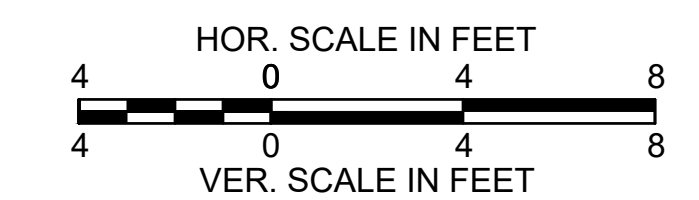



LEGEND

 CLASS "A" TRENCH EXCAVATION  
 SPECIAL BORROW  
 ORDINARY BORROW

 SPECIAL BORROW

 ORDINARY BORROW



4			
2			
0	REV.	DESCRIPTION	BY DATE
	<b>CROSS SECTIONS - DOUGLAS STREET</b>		
2	<b>ROADWAY &amp; INTERSECTION IMPROVEMENTS</b> <b>WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146)</b> <b>&amp; DOUGLAS STREET (ROUTE 16)</b> <b>UXBRIDGE, MASSACHUSETTS</b> <b>PREPARED FOR:</b> <b>CAMPANELLI DEVELOPMENT VI LLC</b> <b>ONE CAMPANELLI DRIVE</b> <b>BRAINTREE, MASSACHUSETTS 02185</b>		
4	 <b>TRANSPORTATION CONSULTANTS, INC.</b> <b>PLANNERS &amp; ENGINEERS</b>		
2	28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370		
	<b>Project No. 1059</b>	<b>File Name: 1059 Cross Sections.dwg</b>	
	<b>Date: Mar. 8, 2021</b>	<b>Scale: As Noted</b>	<b>Sheet 89 of 106</b>

ROADWAY & INTERSECTION IMPROVEMENTS  
WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146)  
& DOUGLAS STREET (ROUTE 16)  
UXBRIDGE, MASSACHUSETTS  
PREPARED FOR:  
CAMPANELLI DEVELOPMENT VI LLC  
ONE CAMPANELLI DRIVE  
BRAINTREE, MASSACHUSETTS 02185

MDM TRANSPORTATION CONSULTANTS, INC.  
PLANNERS & ENGINEERS

28 Lord Road, Suite 280

28 Lord Road, Suite 280  
Marlborough, MA 01752  
Tel: (508) 303-0370

26 Lord Road, Suite 200  
Marlborough, MA 01752  
Tel: (508) 303-0370

Tel: (508) 303-0370

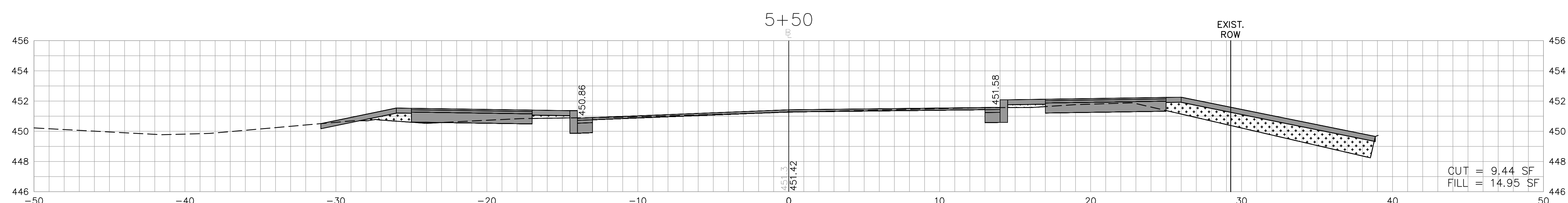
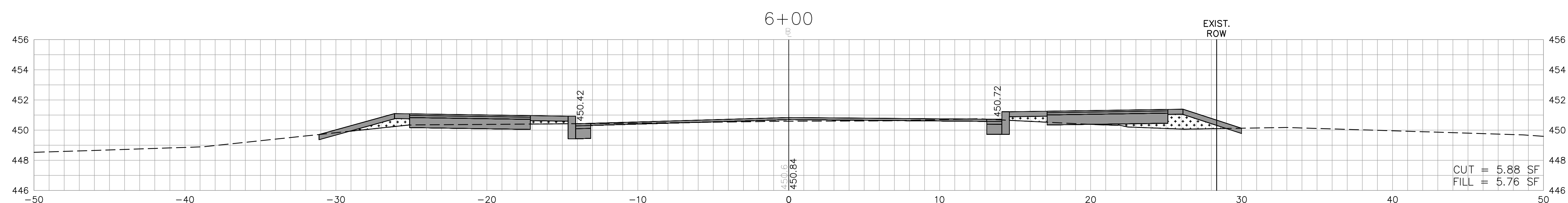
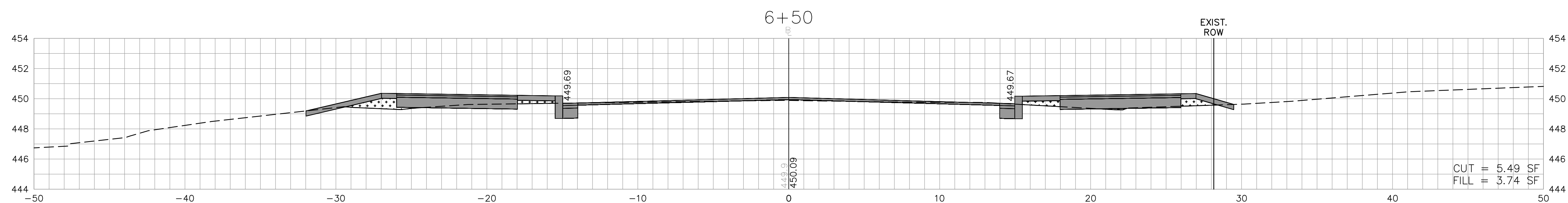
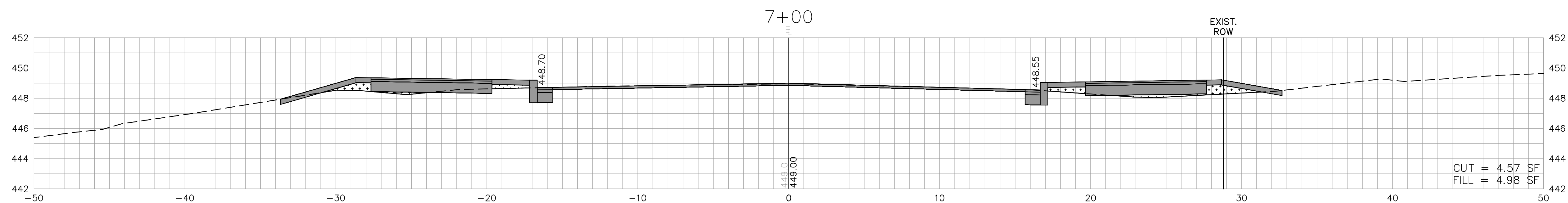
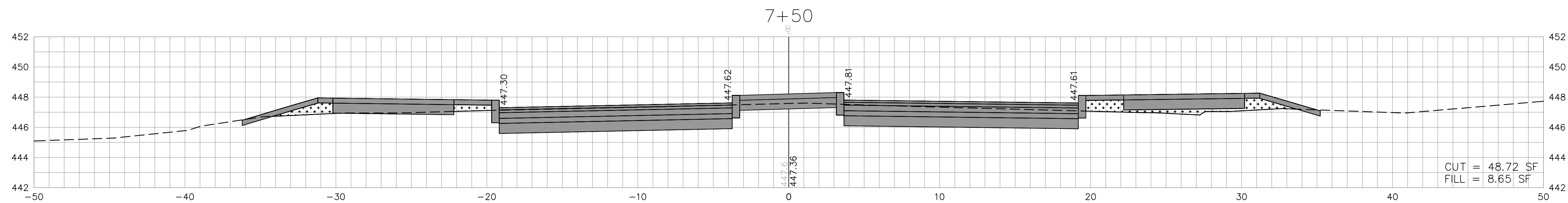
Project No. 1059

File Name: 1059 Cross Sections.dwg

Date: Mar. 8, 2021

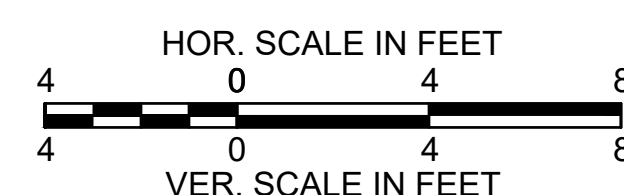
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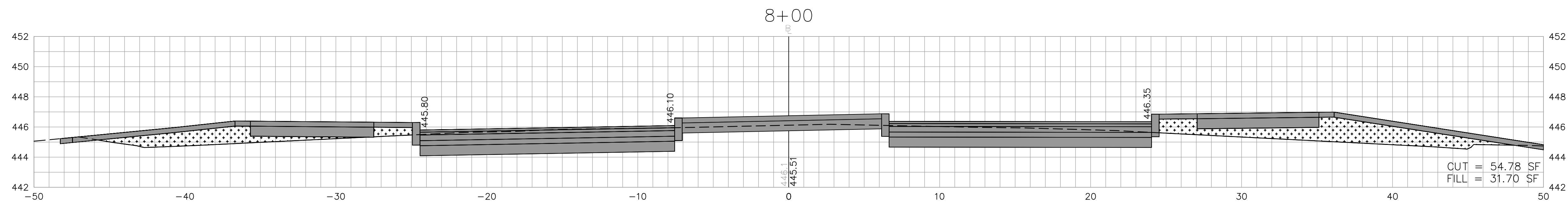
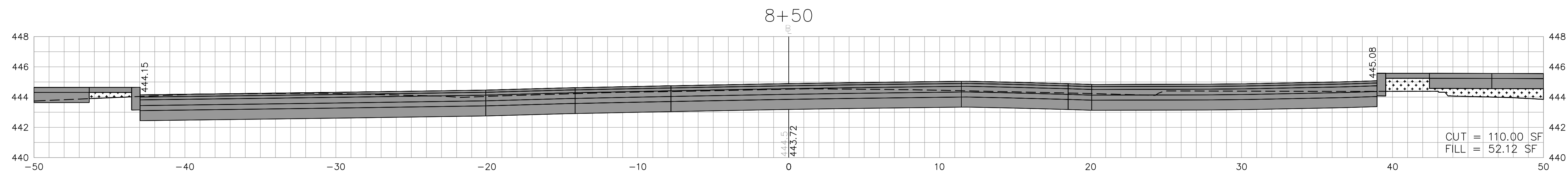
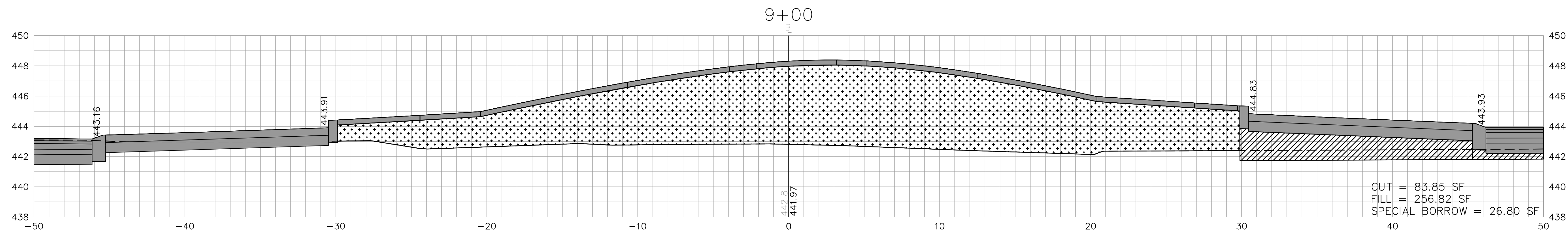
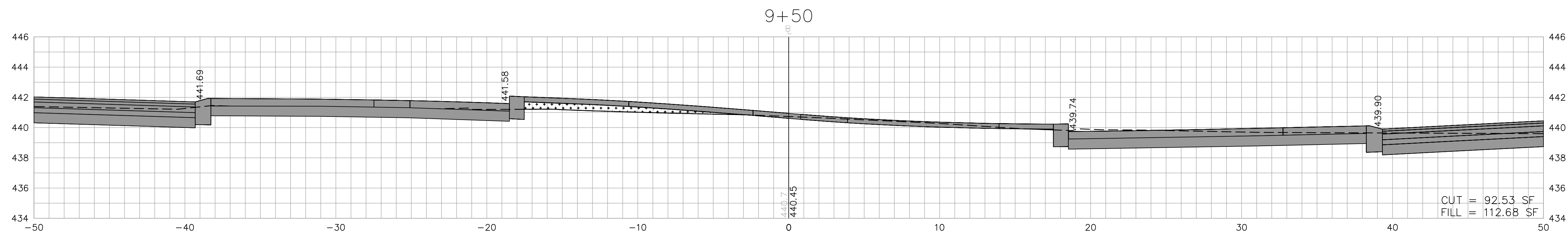
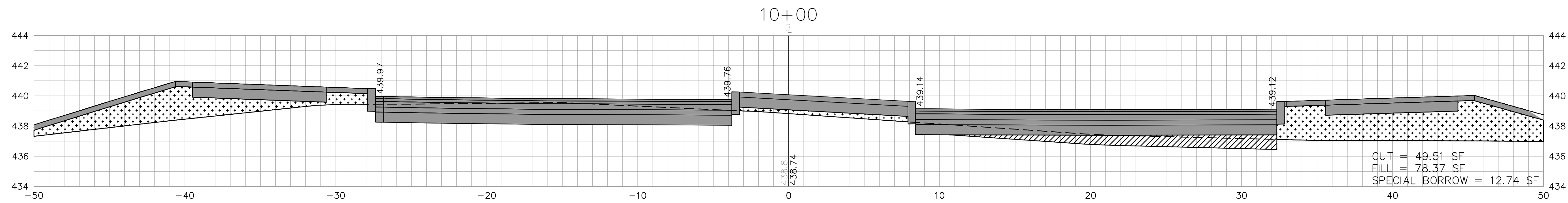


**LEGEND**

CLASS "A" TRENCH EXCAVATION  
SPECIAL BORROW  
ORDINARY BORROW

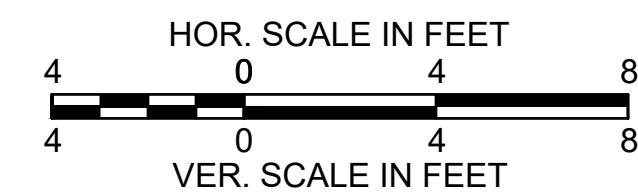


REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - DOUGLAS STREET			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDM TRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Cross Sections.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 89 of 106



**LEGEND**

- CLASS "A" TRENCH EXCAVATION
- SPECIAL BORROW
- ORDINARY BORROW



REV.	DESCRIPTION	BY	DATE

**CROSS SECTIONS - DOUGLAS STREET**

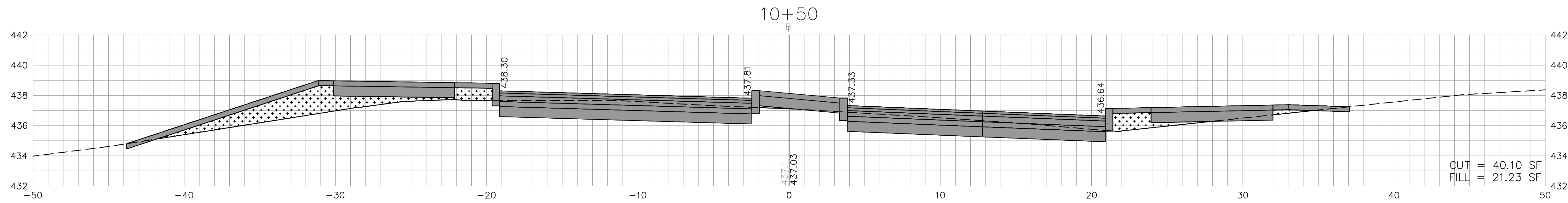
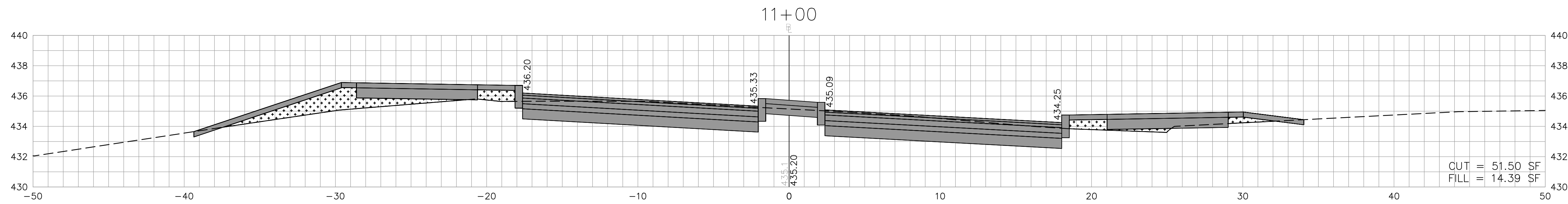
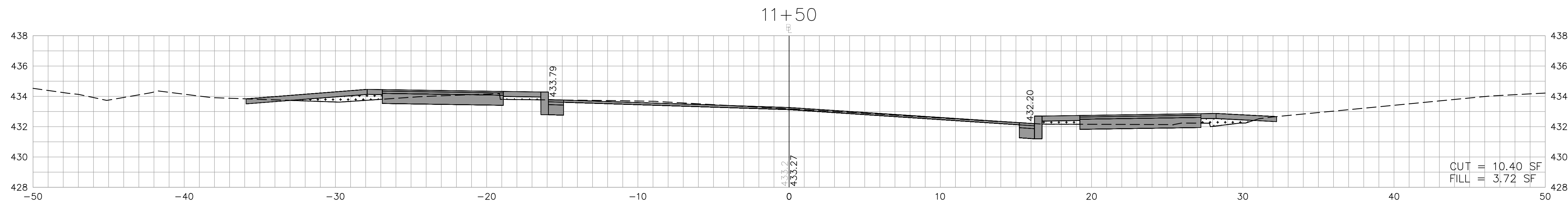
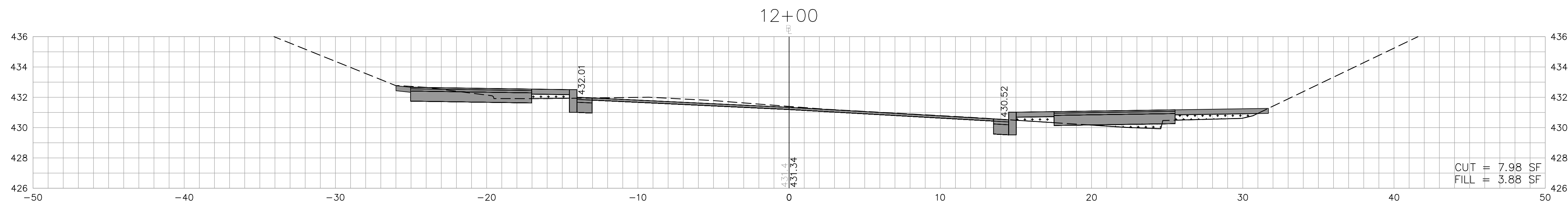
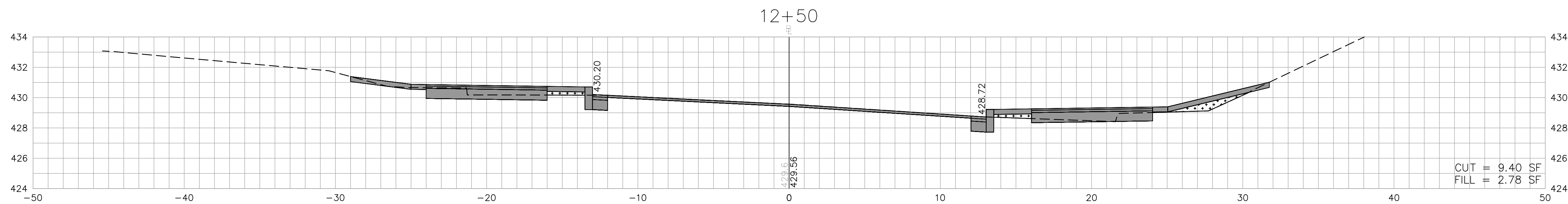
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WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146)  
& DOUGLAS STREET (ROUTE 16)  
UXBRIDGE, MASSACHUSETTS

PREPARED FOR:  
CAMPANELLI DEVELOPMENT VI LLC  
ONE CAMPANELLI DRIVE  
BRAINTREE, MASSACHUSETTS 02185

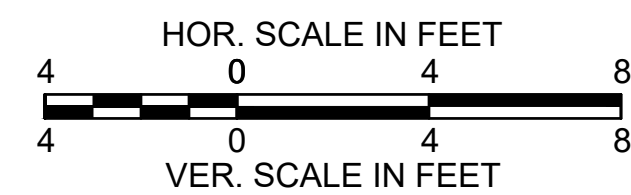
**MDM** TRANSPORTATION CONSULTANTS, INC.  
PLANNERS & ENGINEERS

28 Lord Road, Suite 280  
Marlborough, MA 01752  
Tel: (508) 303-0370

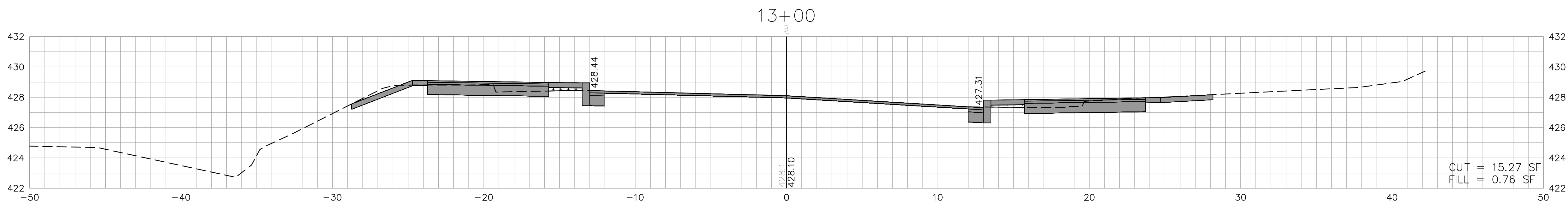
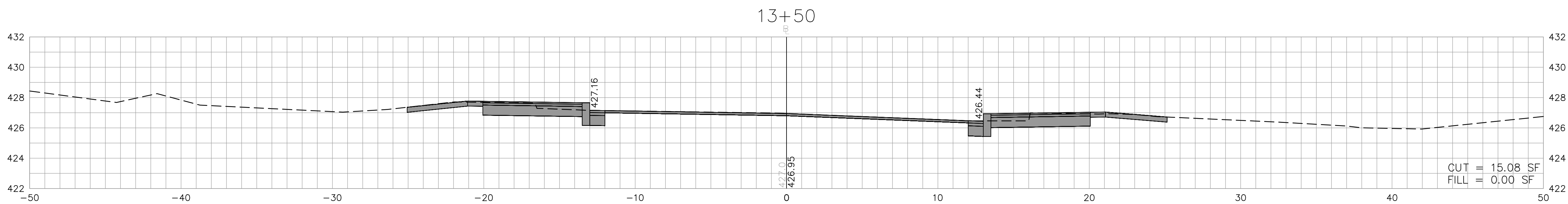
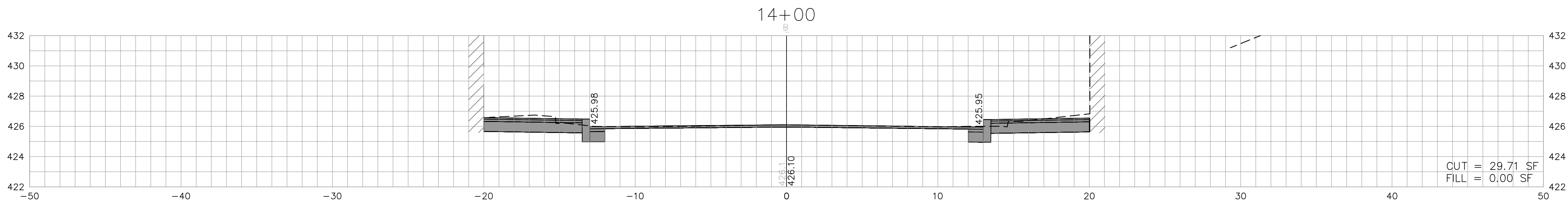
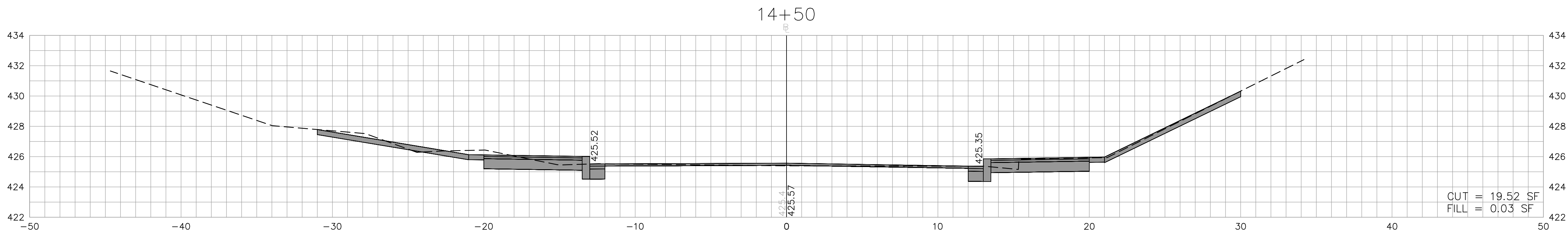
Project No. 1059	File Name: 1059 Cross Sections.dwg
Date: Mar. 8, 2021	Scale: As Noted
	Sheet 91 of 106



- LEGEND**
- CLASS "A" TRENCH EXCAVATION
  - SPECIAL BORROW
  - ORDINARY BORROW

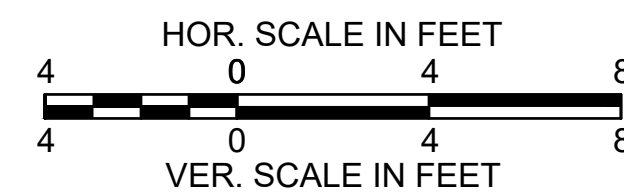


REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - DOUGLAS STREET			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS			
PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Cross Sections.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 92 of 106

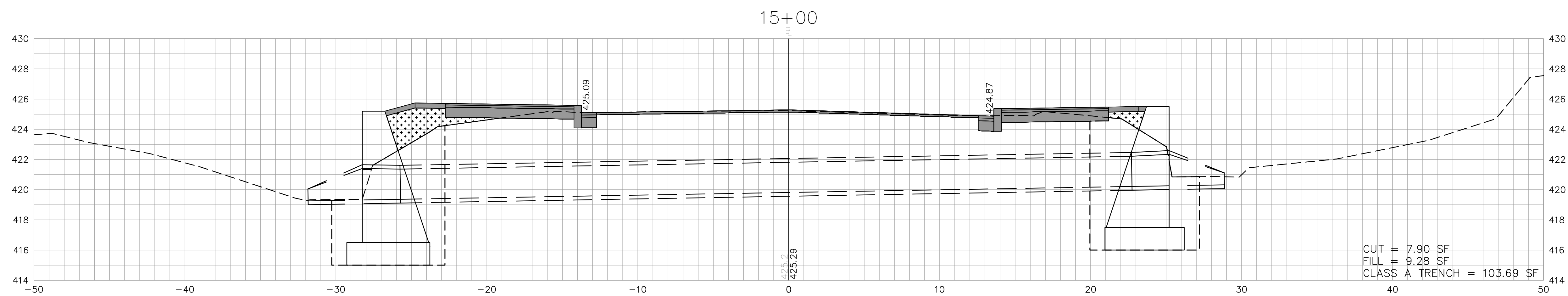
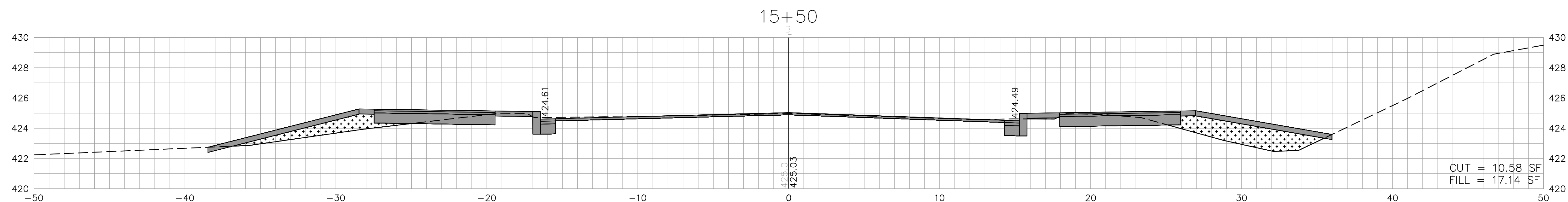
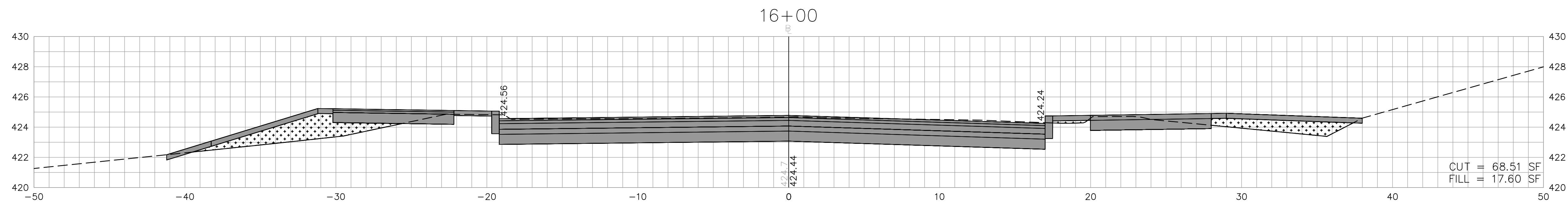
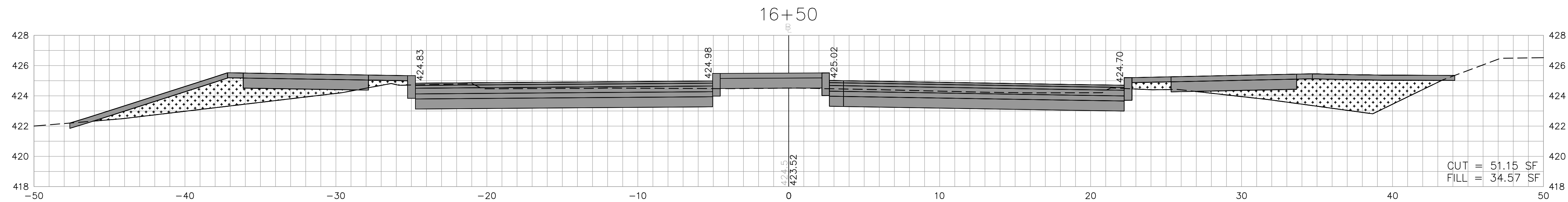


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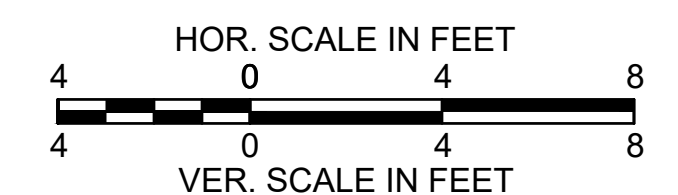
CLASS "A" TRENCH EXCAVATION  
SPECIAL BORROW  
ORDINARY BORROW



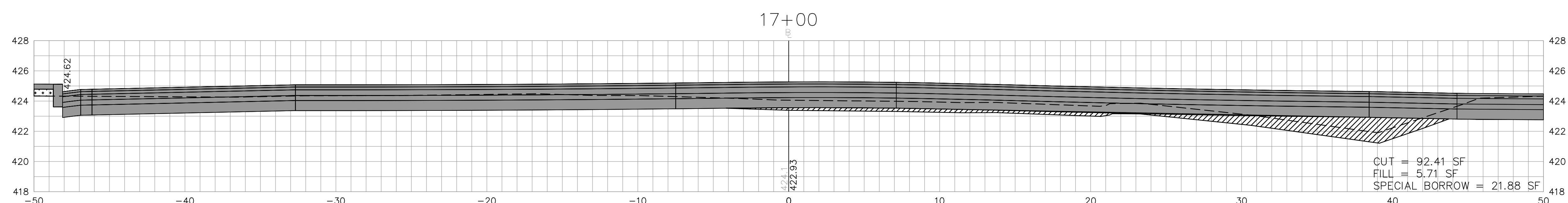
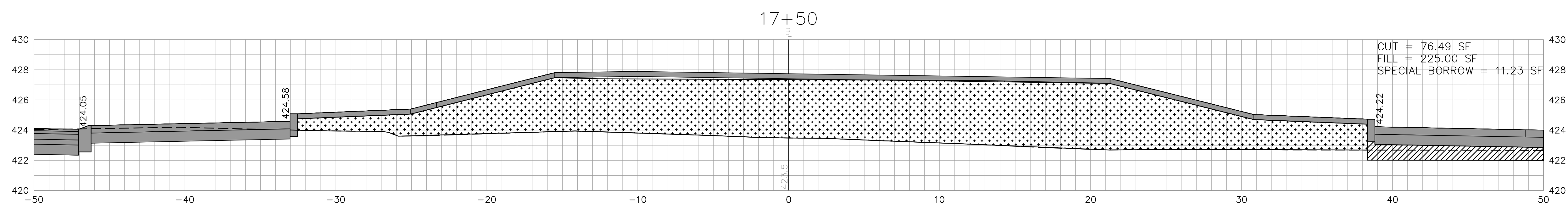
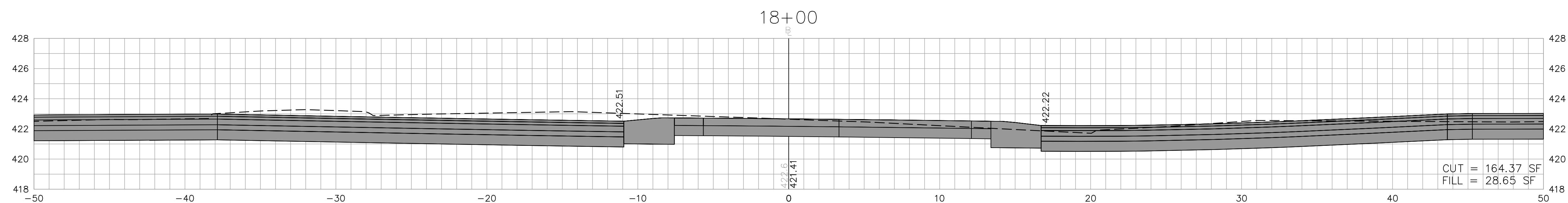
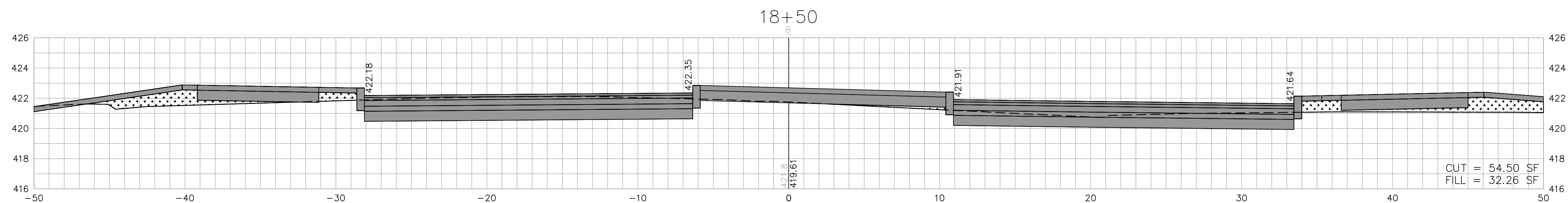
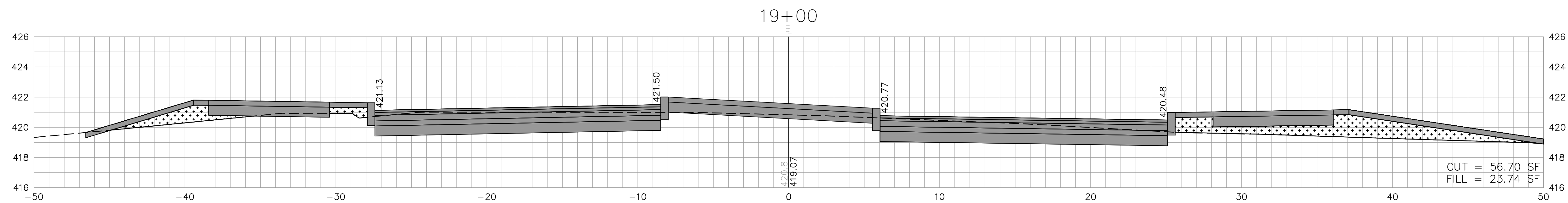
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CROSS SECTIONS - DOUGLAS STREET			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Cross Sections.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 93 of 106



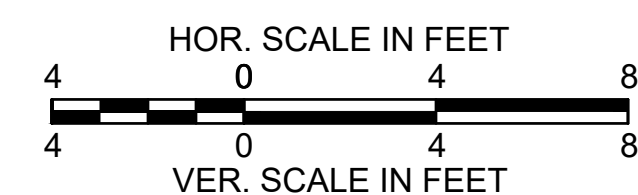
- LEGEND**
- CLASS "A" TRENCH EXCAVATION
  - SPECIAL BORROW
  - ORDINARY BORROW



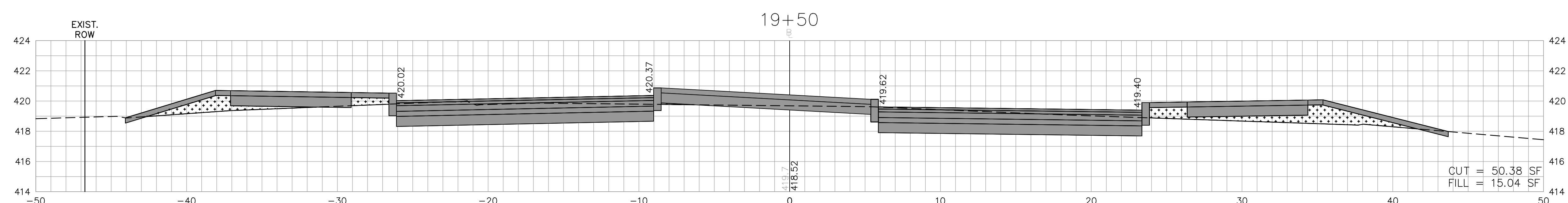
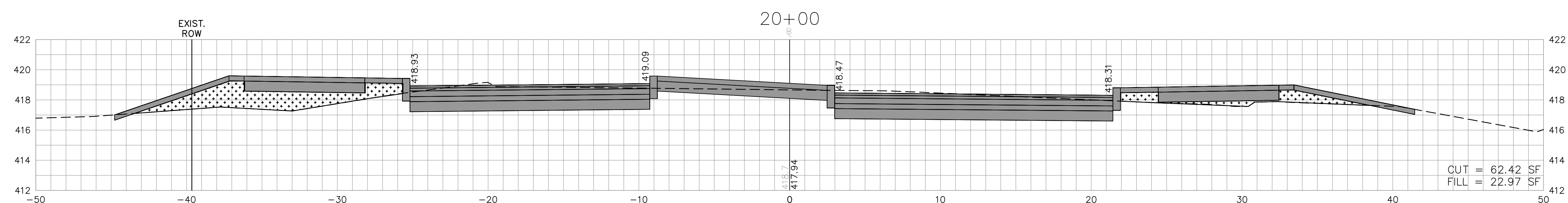
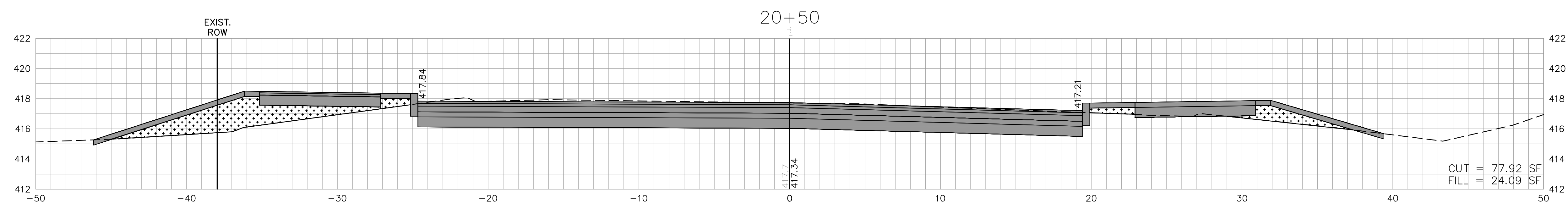
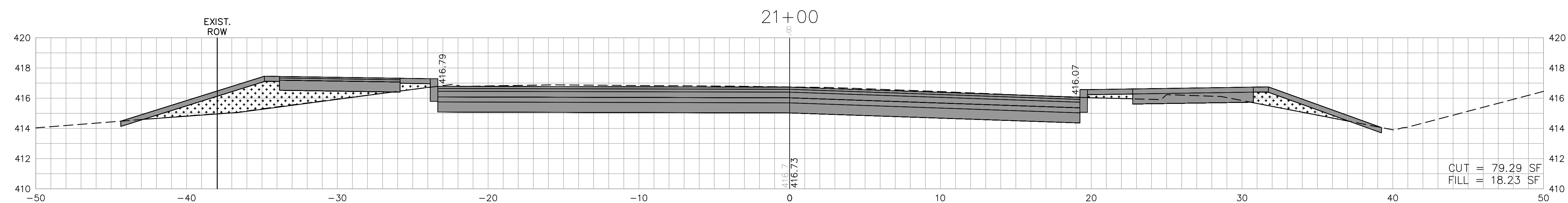
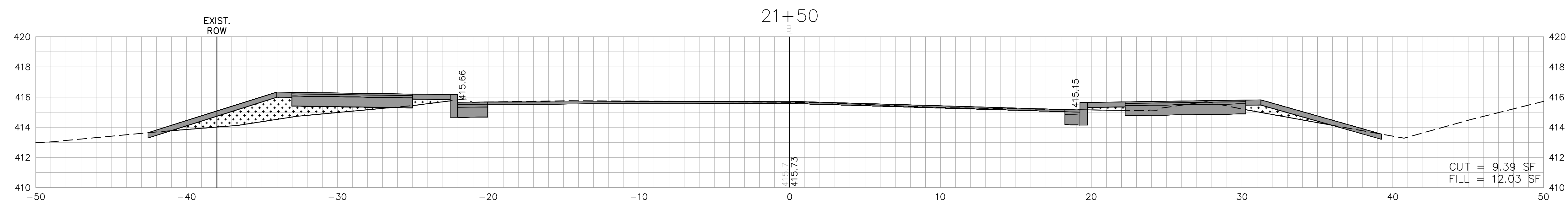
REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - DOUGLAS STREET			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS			
PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Cross Sections.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 94 of 106






- LEGEND
- CLASS "A" TRENCH EXCAVATION
  - SPECIAL BORROW
  - ORDINARY BORROW



REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - DOUGLAS STREET			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS			
PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Cross Sections.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 95 of 106

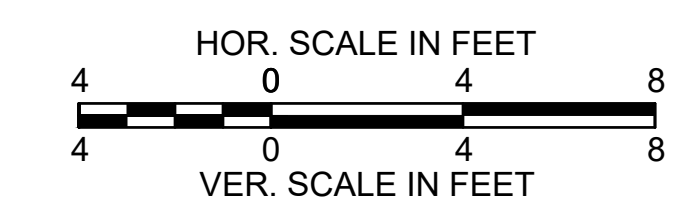



LEGEND

 CLASS "A" TRENCH EXCAVATION  
 SPECIAL BORROW  
 ORDINARY BORROW

CLASS "A" TRENCH  
SPECIAL BORROW

ORDINARY BORROW



6				
4				
2	REV.	DESCRIPTION	BY	DATE
	<b>CROSS SECTIONS - DOUGLAS STREET</b>			
4	<b>ROADWAY &amp; INTERSECTION IMPROVEMENTS</b> <b>WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146)</b> <b>&amp; DOUGLAS STREET (ROUTE 16)</b> <b>UXBRIDGE, MASSACHUSETTS</b> <b>PREPARED FOR:</b> <b>CAMPANELLI DEVELOPMENT VI LLC</b> <b>ONE CAMPANELLI DRIVE</b> <b>BRAINTREE, MASSACHUSETTS 02185</b>			
6	 <b><u>TRANSPORTATION CONSULTANTS, INC.</u></b> <b>PLANNERS &amp; ENGINEERS</b>			
4	28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
	<b>Project No. 1059</b>	<b>File Name: 1059 Cross Sections.dwg</b>		
	<b>Date: Mar. 8, 2021</b>	<b>Scale: As Noted</b>	<b>Sheet 96 of 106</b>	

ROADWAY & INTERSECTION IMPROVEMENTS  
WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146)  
& DOUGLAS STREET (ROUTE 16)  
UXBRIDGE, MASSACHUSETTS  
PREPARED FOR:  
CAMPANELLI DEVELOPMENT VI LLC  
ONE CAMPANELLI DRIVE  
BRAINTREE, MASSACHUSETTS 02185

MDM TRANSPORTATION CONSULTANTS, INC.  
PLANNERS & ENGINEERS

28 Lord Road, Suite 280

28 Lord Road, Suite 280  
Marlborough, MA 01752  
Tel: (508) 303-0370

28 Lord Road, Suite 280  
Marlborough, MA 01752  
Tel: (508) 303-0370

Marlborough, MA 01752  
Tel: (508) 303-0370

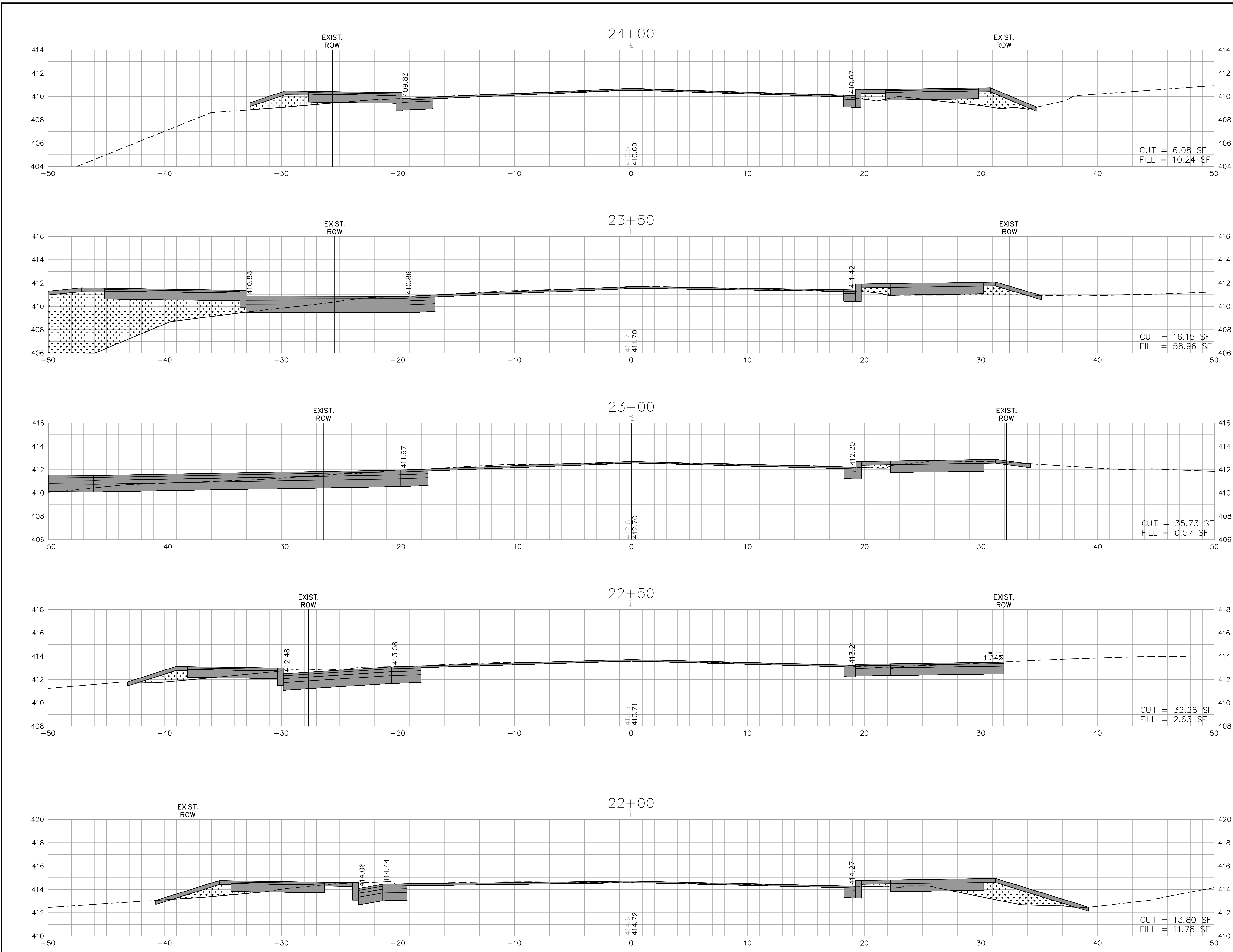
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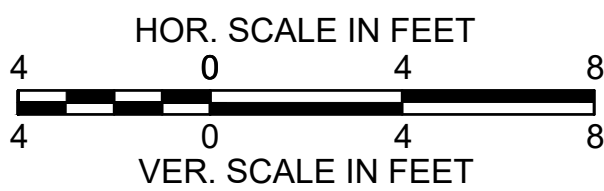
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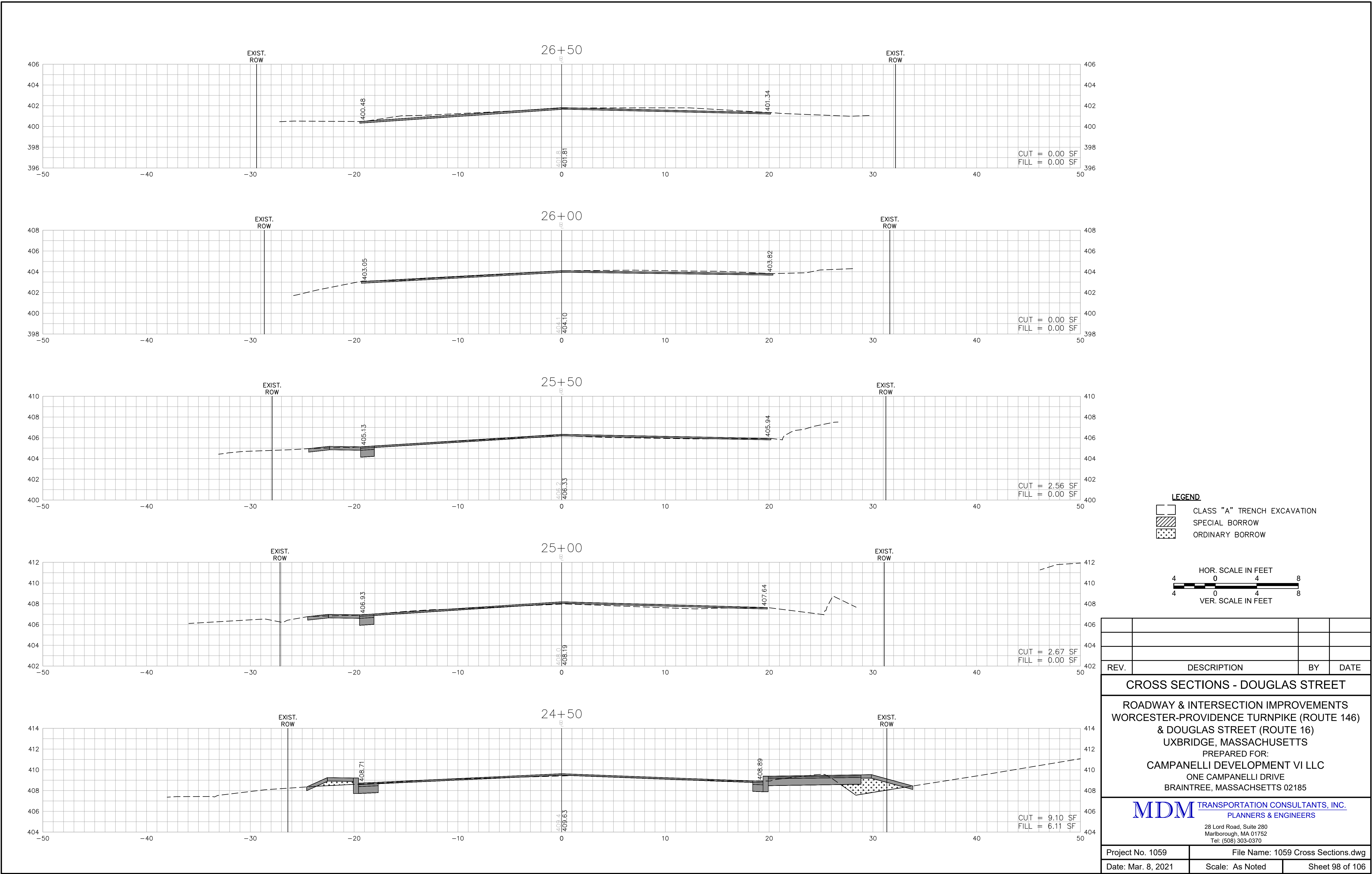
Sheet 96 of 106

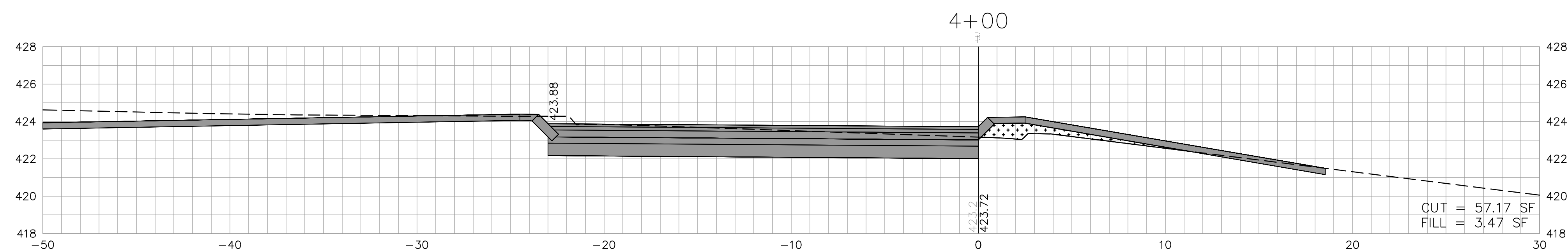
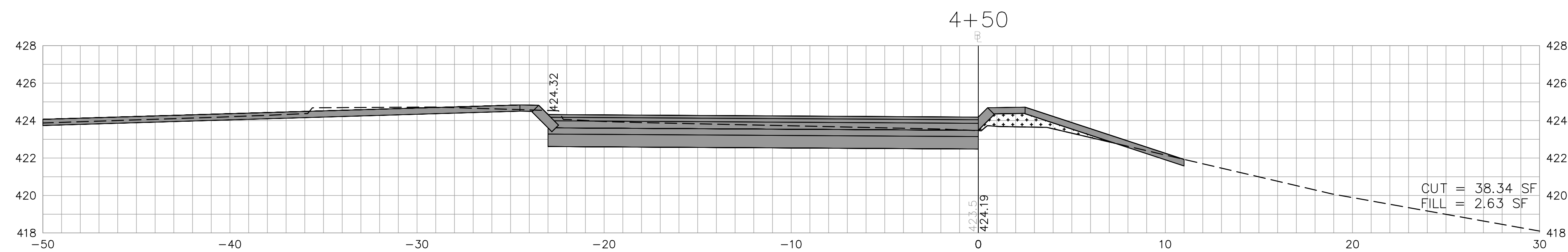
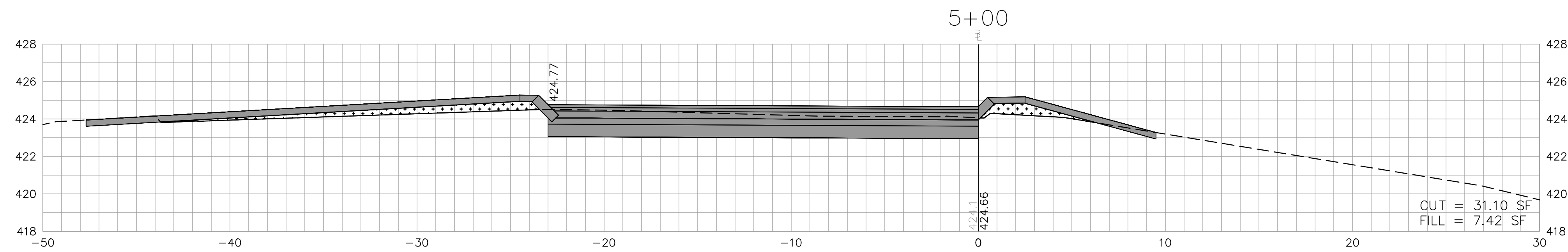
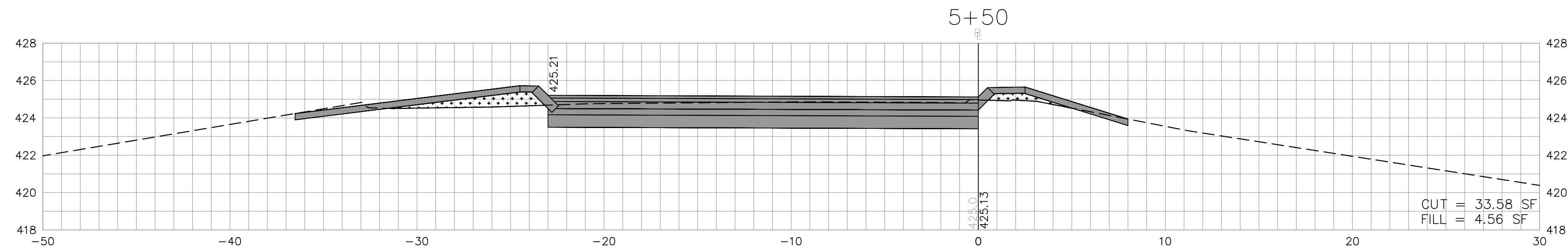
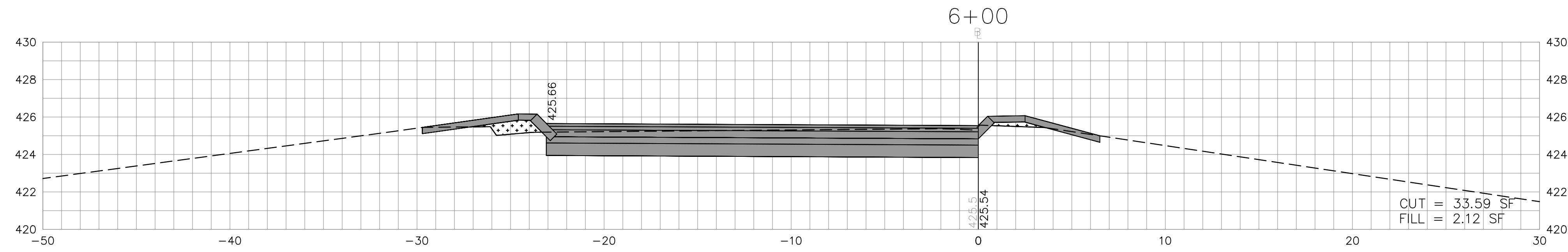


- LEGEND**
- CLASS "A" TRENCH EXCAVATION
  - SPECIAL BORROW
  - ORDINARY BORROW



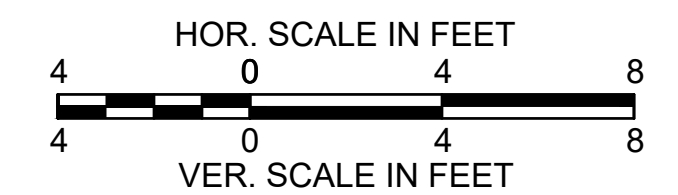
REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - DOUGLAS STREET			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Cross Sections.dwg	
Date: Mar. 8, 2021		Scale: As Noted	Sheet 97 of 106



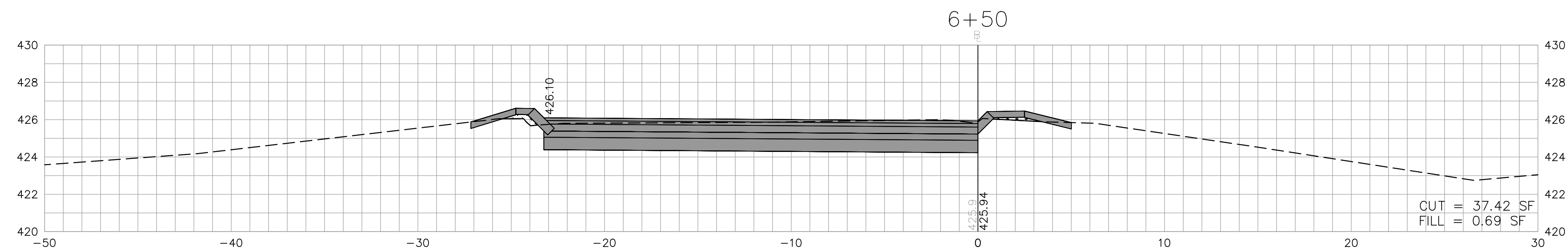
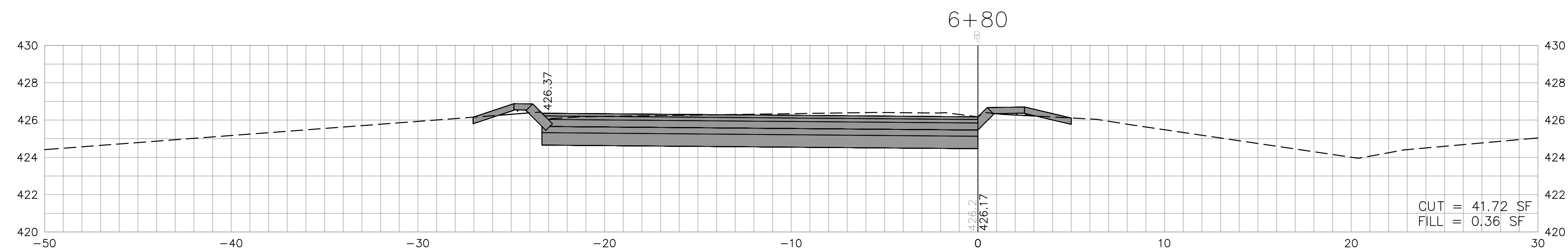
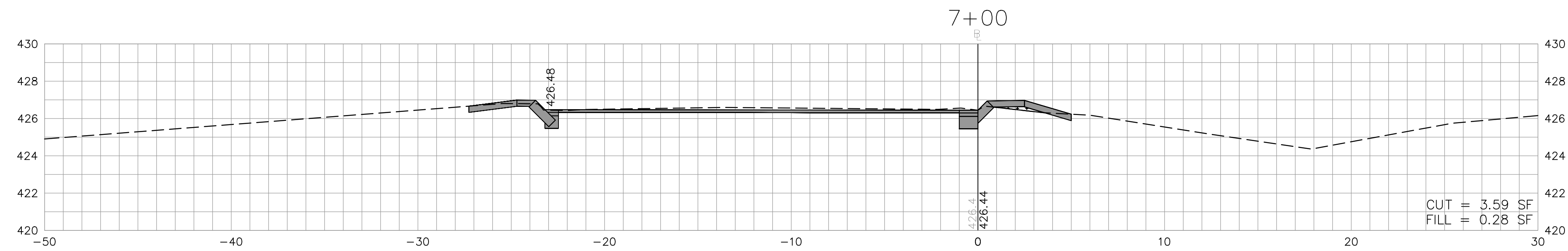
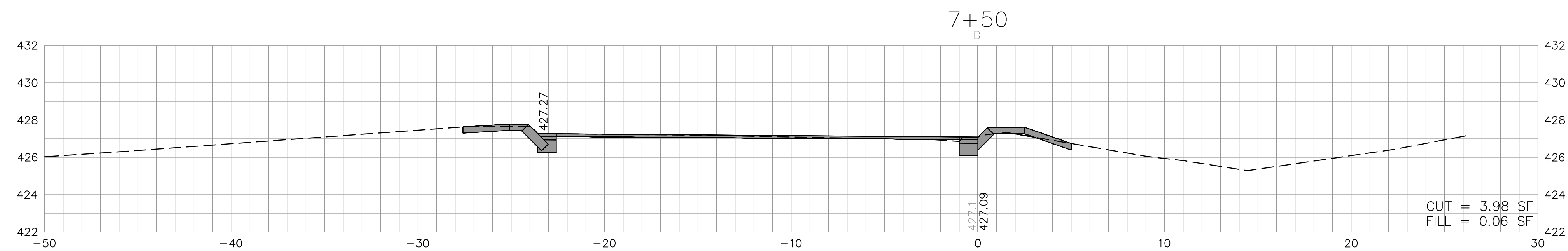


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CLASS "A" TRENCH EXCAVATION  
SPECIAL BORROW  
ORDINARY BORROW

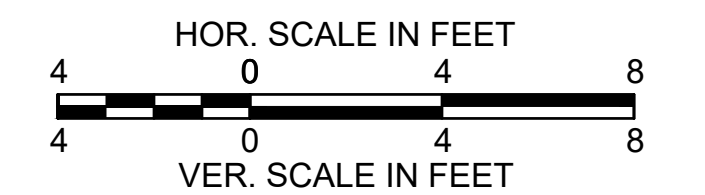


REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - RT 146 NB ON-RAMP			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Cross Sections.dwg	
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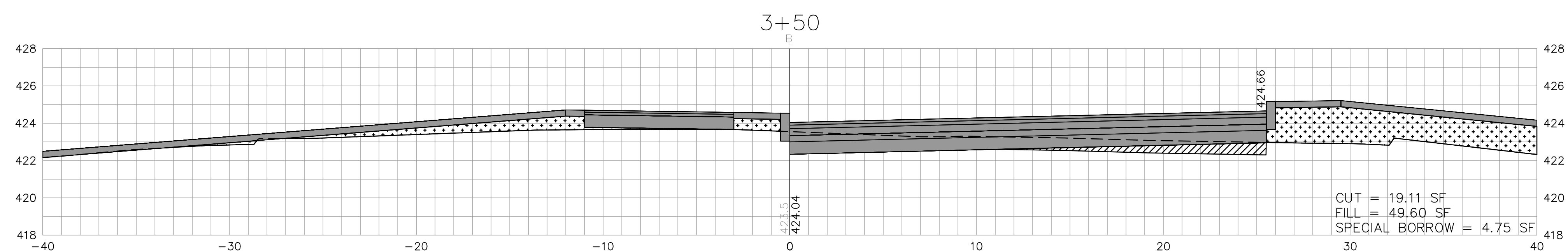
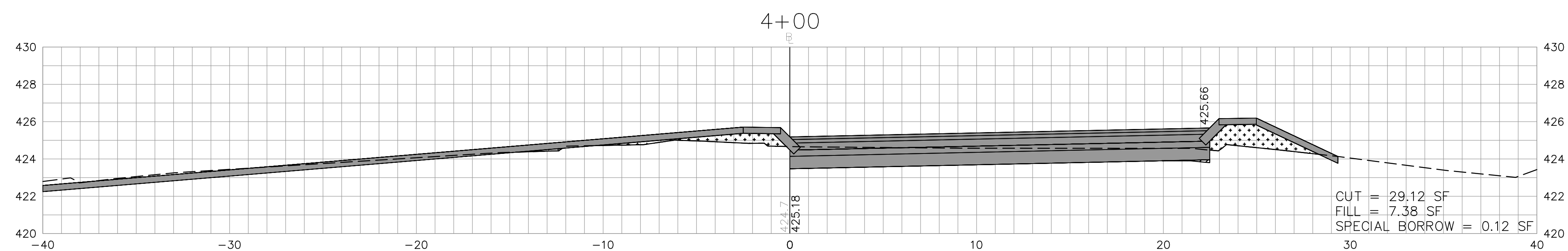
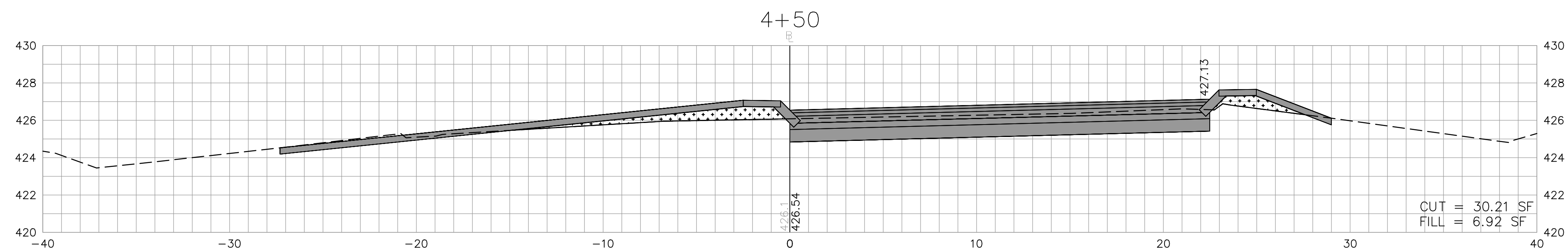
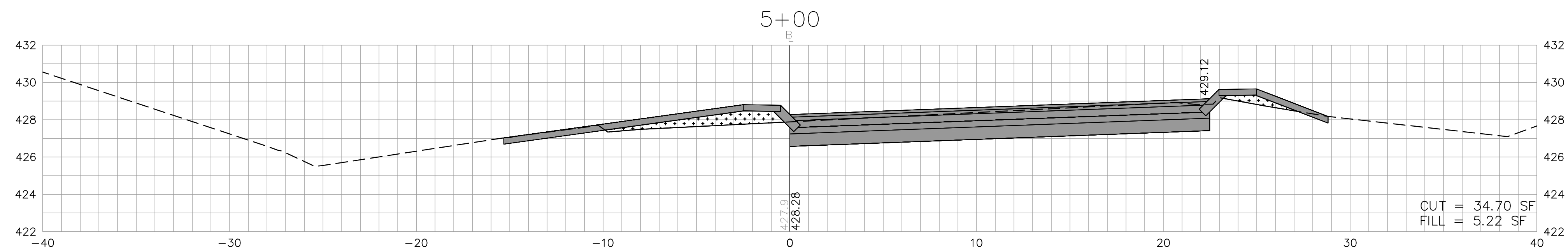
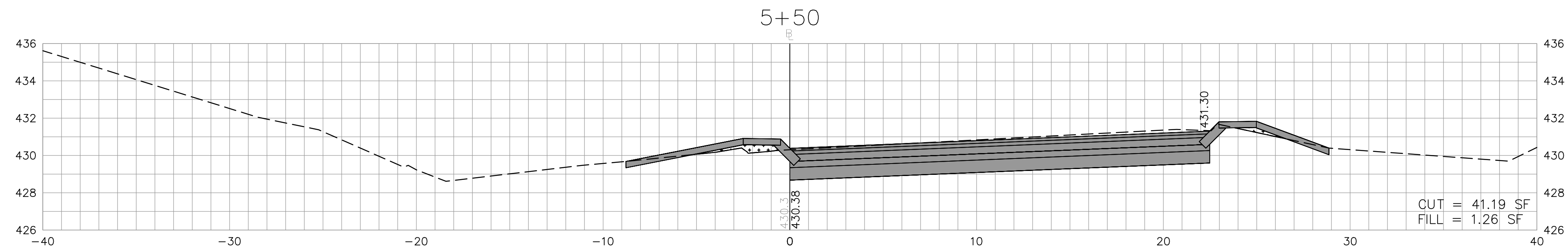


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CLASS "A" TRENCH EXCAVATION  
SPECIAL BORROW  
ORDINARY BORROW

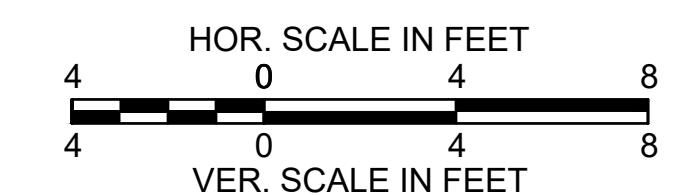


REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - RT 146 NB ON-RAMP			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
MDMTRANSPORTATION CONSULTANTS, INC. PLANNERS & ENGINEERS 28 Lord Road, Suite 280 Marlborough, MA 01752 Tel: (508) 303-0370			
Project No. 1059		File Name: 1059 Cross Sections.dwg	
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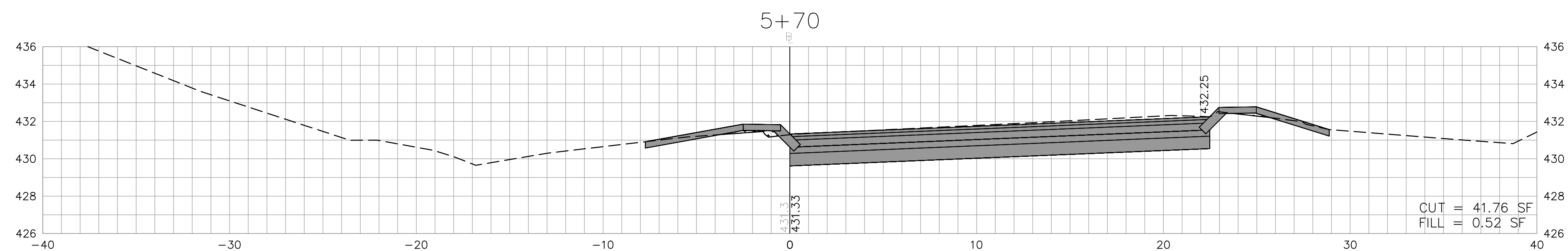
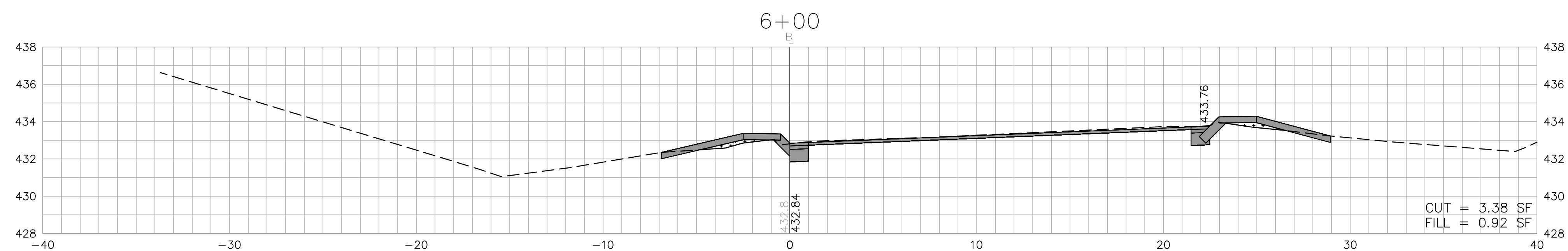
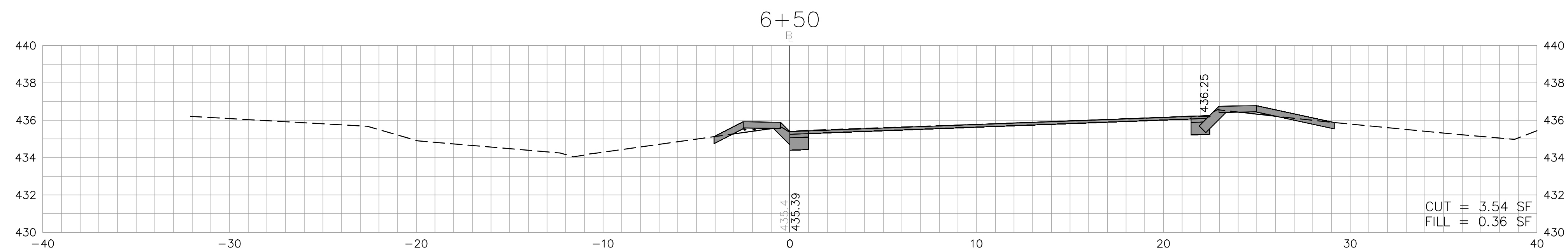


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CLASS "A" TRENCH EXCAVATION  
SPECIAL BORROW  
ORDINARY BORROW

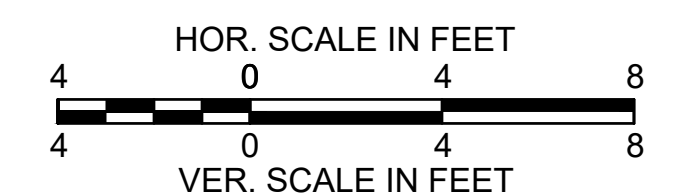


REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - RT 146 NB OFF-RAMP			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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Project No. 1059		File Name: 1059 Cross Sections.dwg	
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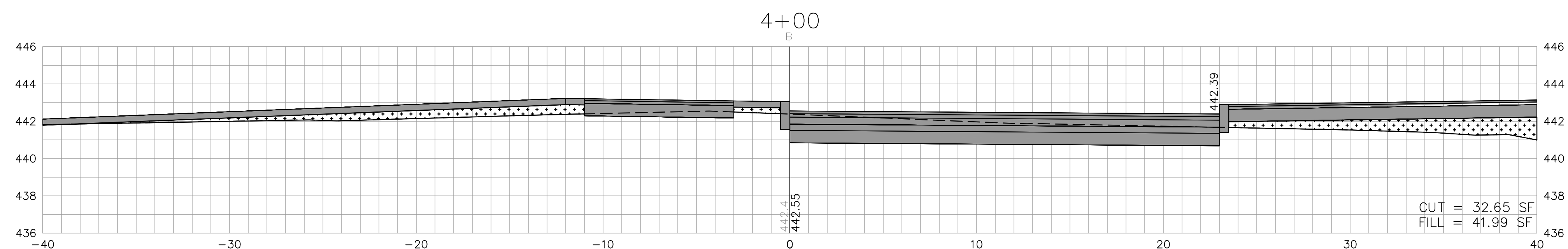
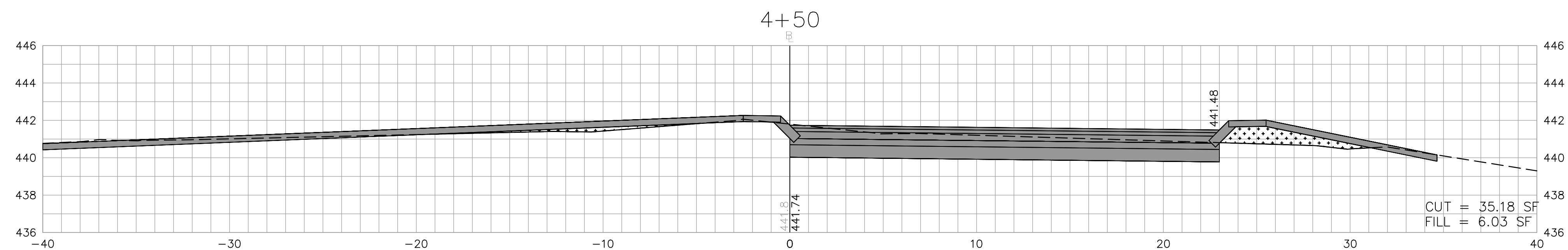
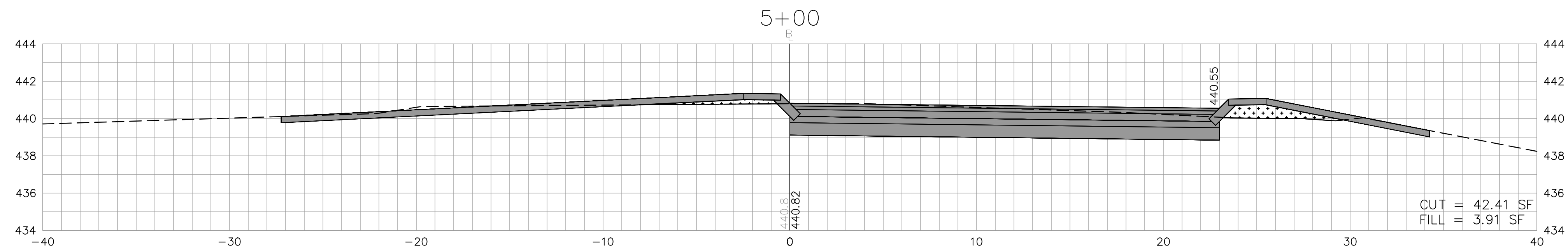
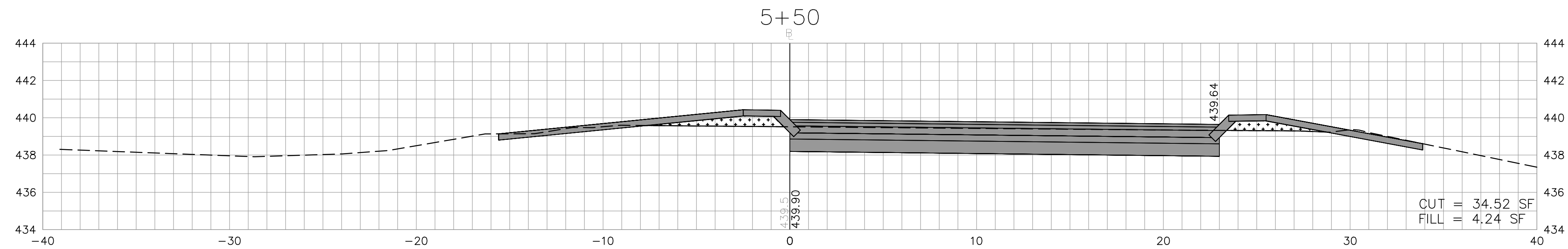
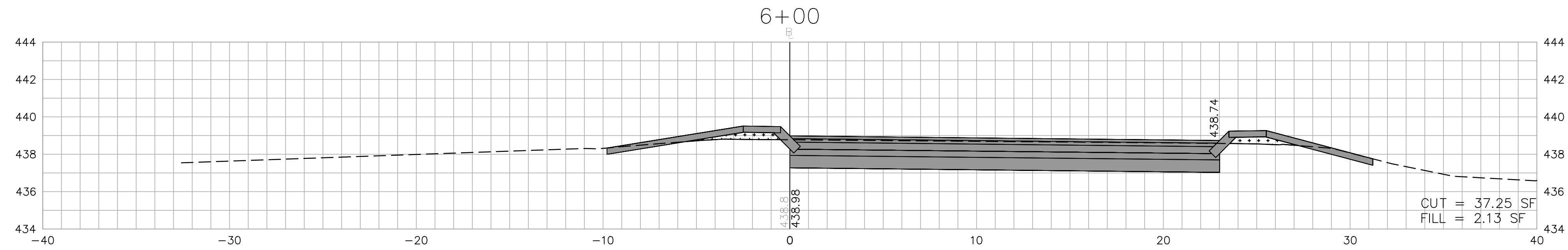


**LEGEND**

	CLASS "A" TRENCH EXCAVATION
	SPECIAL BORROW
	ORDINARY BORROW



REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - RT 146 NB OFF-RAMP			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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Project No. 1059		File Name: 1059 Cross Sections.dwg	
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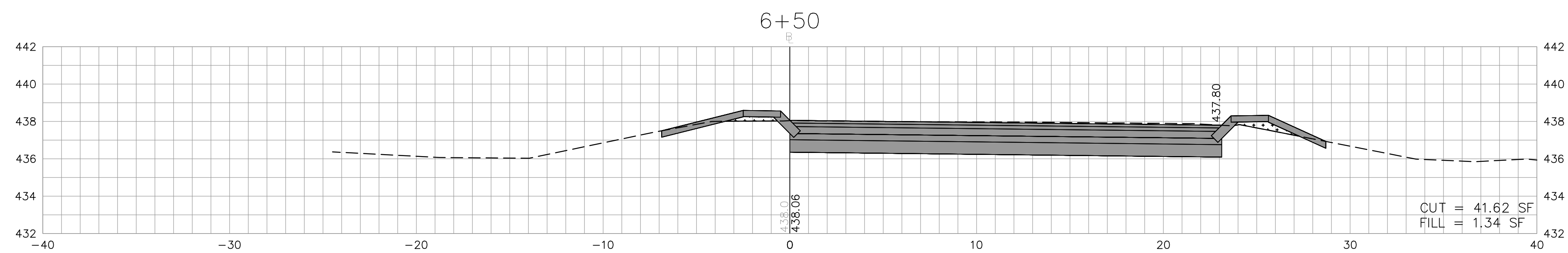
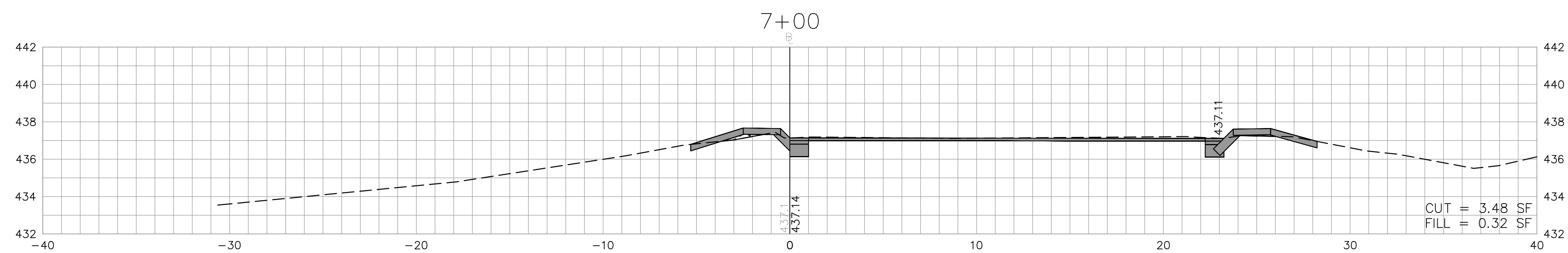
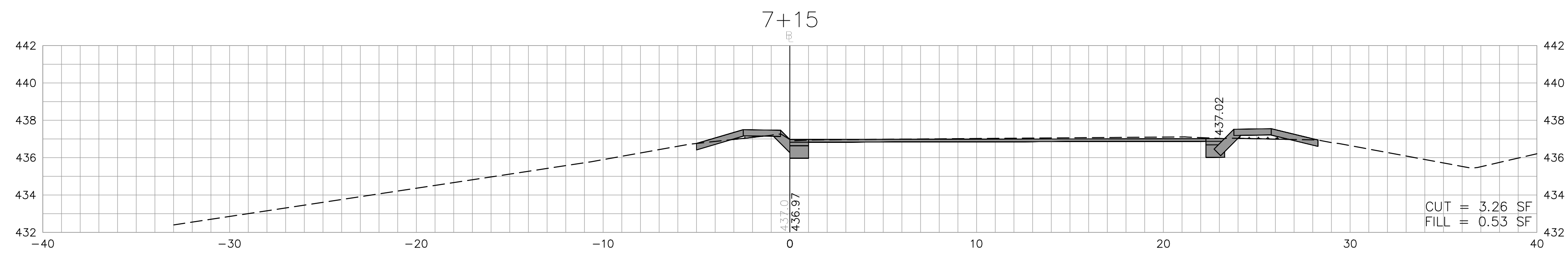


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CLASS "A" TRENCH EXCAVATION  
SPECIAL BORROW  
ORDINARY BORROW

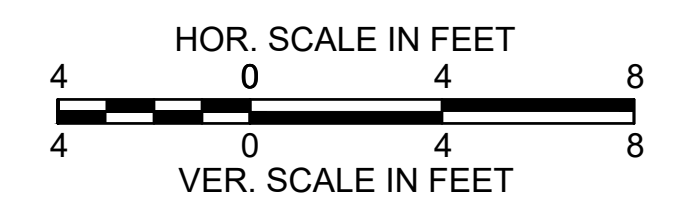
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REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - RT 146 SB OFF-RAMP			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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Project No. 1059		File Name: 1059 Cross Sections.dwg	
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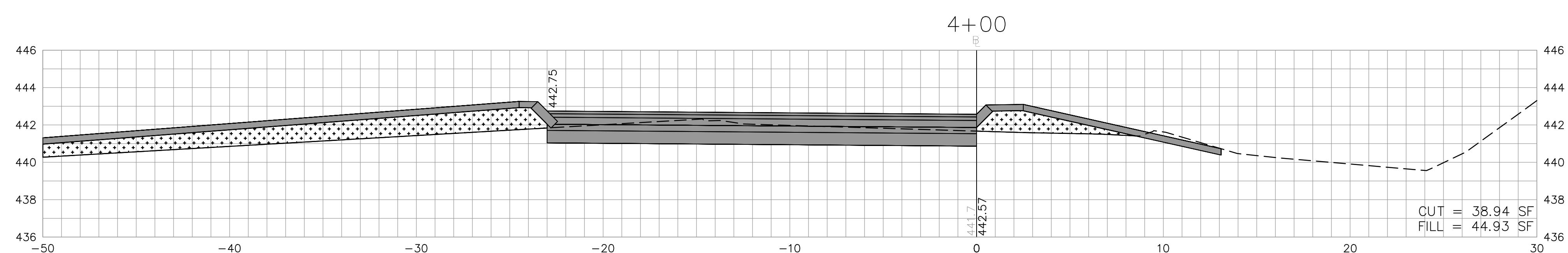
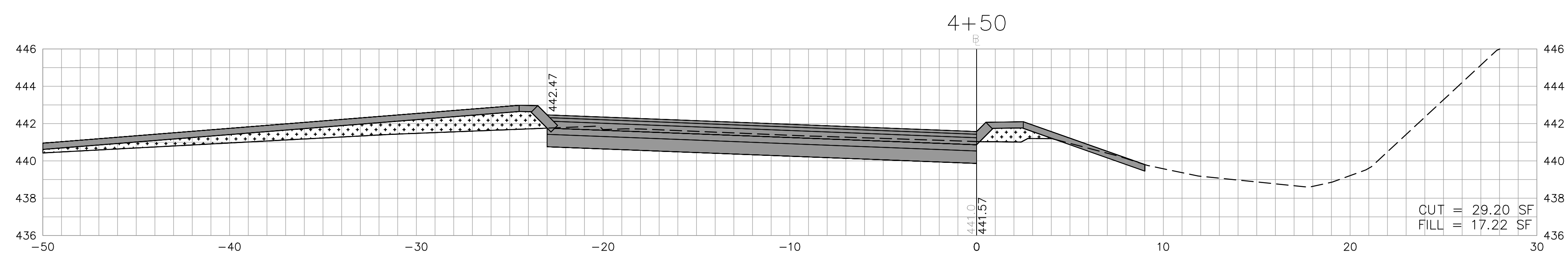
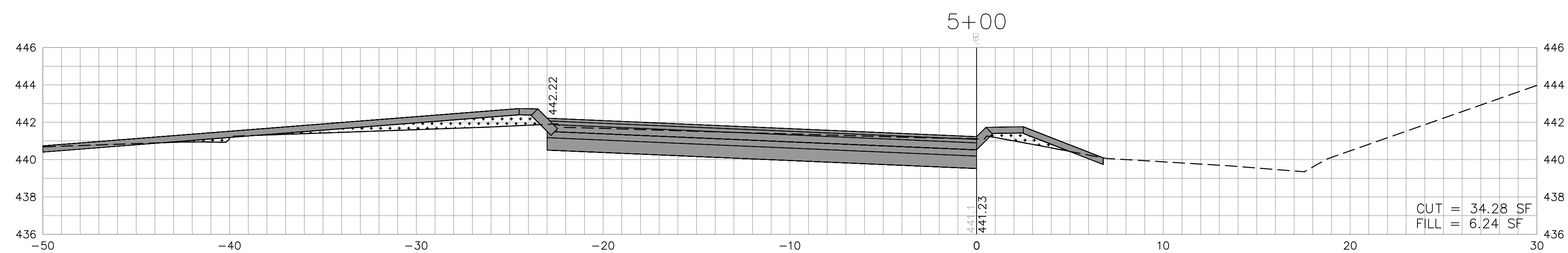
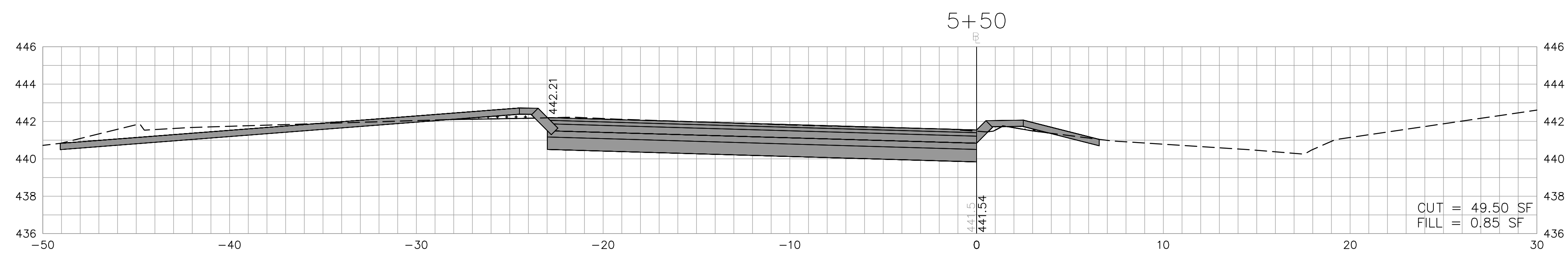
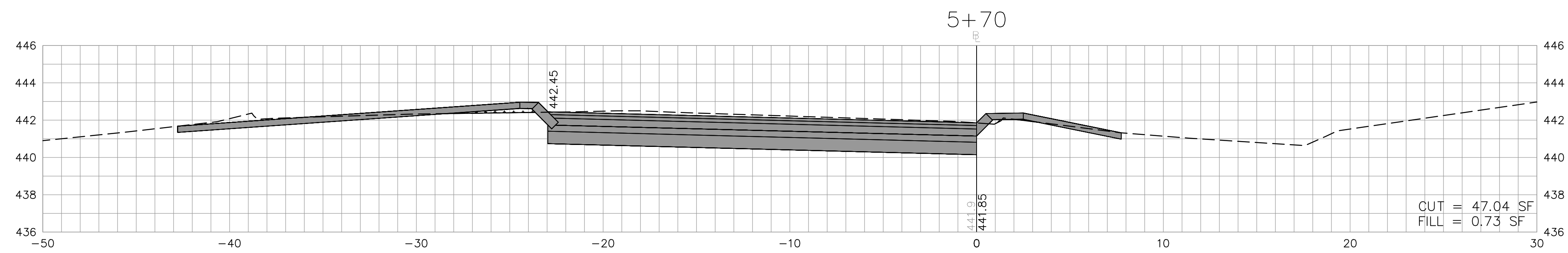


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CLASS "A" TRENCH EXCAVATION  
SPECIAL BORROW  
ORDINARY BORROW

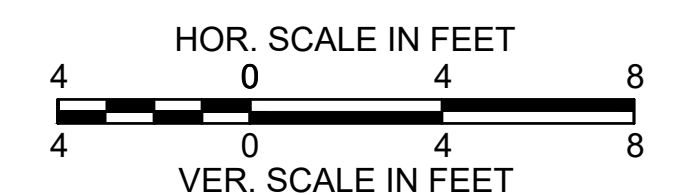


REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - RT 146 SB OFF-RAMP			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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Project No. 1059		File Name: 1059 Cross Sections.dwg	
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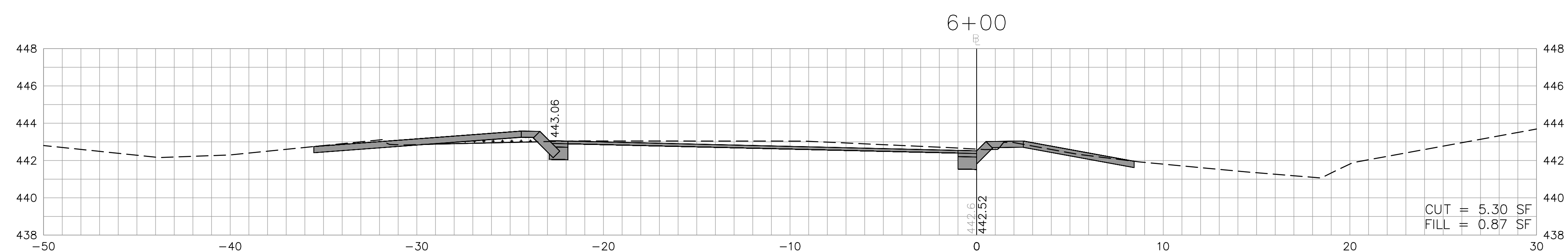
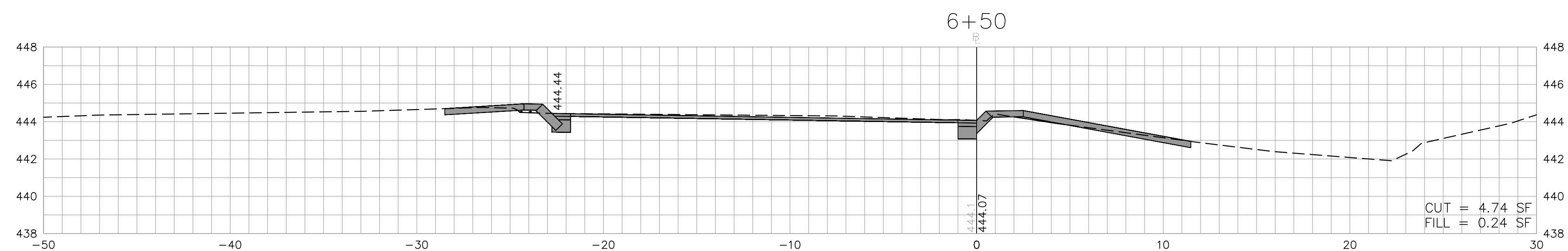
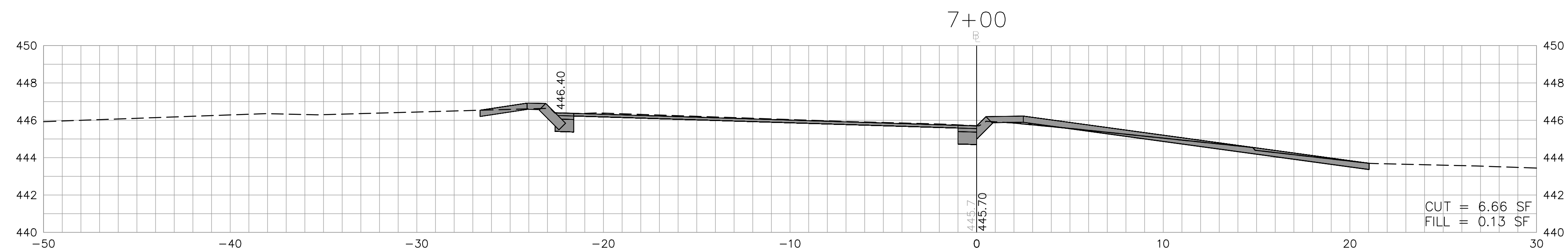
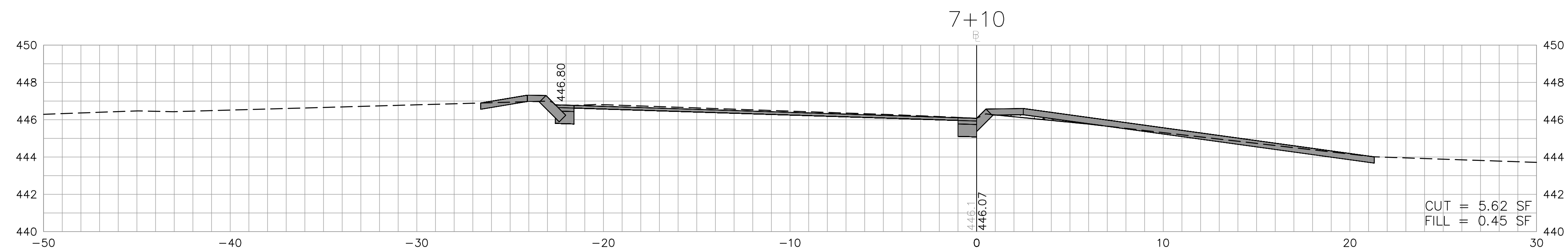


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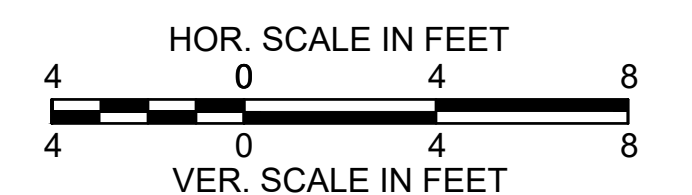
CLASS "A" TRENCH EXCAVATION  
SPECIAL BORROW  
ORDINARY BORROW



REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - RT 146 SB ON-RAMP			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHSETTS 02185			
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- LEGEND
- CLASS "A" TRENCH EXCAVATION
  - SPECIAL BORROW
  - ORDINARY BORROW



REV.	DESCRIPTION	BY	DATE
CROSS SECTIONS - RT 146 SB ON-RAMP			
ROADWAY & INTERSECTION IMPROVEMENTS WORCESTER-PROVIDENCE TURNPIKE (ROUTE 146) & DOUGLAS STREET (ROUTE 16) UXBRIDGE, MASSACHUSETTS PREPARED FOR: CAMPANELLI DEVELOPMENT VI LLC ONE CAMPANELLI DRIVE BRAINTREE, MASSACHUSETTS 02185			
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